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FIGURE 1046

AGCCCTATTTATCTGATTATTTAAGTAAAACCTTTAATAAACCATGACCTACATTTTCTATGCAATTTTAAGATAC
TCAGAGTTAATATTTTAATATTGAGGTTCTTGATTTTTTTAATGATCAGCTTTCAAATTATATTTTCAGTATATAC
TCTGAGTCTACGTGTATGCTACAAAAGGTGAAATGAAGTTAGCTTATTTTTCAGTGAGTTTAGGCTATATTAAGA
GTTAGGTAAGTTAGGTAAGGGTGAAACTGCTTTGGGGCCCAGACTGCGCTGGAATGTACTGTTTAAATTCAAAGG
TAATTGATGGCCAGTGTTTCAGTTGCTCTATTTGTAACGTTTGCAITGTTGGTCTGGCTGAAGTATCAGGAAAACAC
AAAATTCATGAAAATAGCACCTTTTATAATTTTATACTTTTATAAAGCACTTGTTAAAGAAGTATAGCAAATTTTC
TATGTATTTTAACATACAAGTCGCTGCATTTTAATGTTTCATTTTGGTATAGCTATGGTAACTTATAATAGTCAT
TTTTATATTCATAACTTGTTTTCTGAAAGATATAGTCATTATTAATAAATAACATTCATGTAAATGGAGTAAATCA
TAGGGGAATCAATCGTAATAAATACCTTATAAATTATAAACTTGTTTAGATACTAGATTTCTATAACCATAAATT
TTATACTGTAAAGTCTGTTTTAAAATAGGGTTAATGAAGTTATTTAATTTTTAGAGACTCCCCTCTAAATAATT
TACTCCTACATTGTAAATACATTGATGCCAACAAAATCCAACCTGCTACTAACAAGGTTTGGTTGGTGATAAGC
TAATAACAGCTACTTTGTGTAGGAGGTAAATATGTGTACTGGAGGGGGTAAAAATCCATTTAGGTTATGGCAAAG
ATGGGAATCAAACCTGTAAACTCATAGCCCCATAAAATTAATATTCTTTGTAAAGTGCCAGAGGGTTTAAGAGAA
CTTCTTGCTTAGAGTTTATTGATAATAATAATGCTTCAGAATATCCCATTTAAATGTACAGTGTAATATGTAAA
ATATTTTACTTCCCAGGCAAGTTTGTGGCTGTATTGCCACTTAGTGGCTCTTTGTGACTGGCAGTTCTGTATATC
TGAAACAAATAAGCTGTAAGCACTTTTGTAAAACTTTGTCAAATAATCCTTTTATGTACTTGTTCTCAGACCTG
TTCTCTGGTTATGAAATGTGTTAAAGACAAGGTGCAAATTTAAACAATGCCTGTATTGAAATAAATGACTTAA
CAGAAAAAAAACCTAGTAGTCGGGGGGAACCACTAGT

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FIGURE 1047

PYLSDYLSKTLINHDHLHFLCNFKILRVNIIILRFLIFLMISFQIIFQYIL

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FIGURE 1048

GCGTGCTGGCCCGGGGTGGCAGGAGCCGCAGAGGCTTGGGCTGCAGAAAAAGGATCCTGTTTGCTGTGTAATCCT
GAGAATGGACTGCAAGAGAGGAAAACTGGGCGTCTGCTTGGGAATCTATTGTGGAACCCAGGGTGTTTCCCGA
CCAGTCCCTGGGCGCCAACTAGAGTATGGACTGACCAGGTACCTGGATGGAGACCTGAGCTGGAGAAGGAGATGC
GCTTGGGAGGAAATTGCAGAGGCCGTCAACATGGAAAAGCAGCCCCAGAACAGCAGGAGAGGCCTCGCCCCCGA
GAGGTGCCGCCAGCTGTTGGGCTGCTGCTGATCATGGCCCTGATGAATACTCTACTCTACCTCTGCCTCGACCAC
TTCTTCATCGCTCCTCGACAATCCACTGTGGACCCACACACTGTCCCTATGGTCACTTCAGGATAGGACAGATG
AAAACTGCTCACCTTGGCTGTCCTGCGAGGAGCTGAGAACAGAAGTGAGACAGCTGAAGCGTGTGGGGAAGGA
GCTGTAAAGAGAGTCTTTCTGTCTGAGTGGAAGGAGCACAAAGTTGCACTCTCACAGCTCACCAGCCTGGAGATG
AAAGATGATTTCTCCATGGACTGCAGATGCTGAAATCTCTCCAAGGCACACATGTTGTCACGCTGCTTGGCTAT
TGTGAGGATGACAACACTATGCTTACTGAATATCACCTCTAGGTTCCCTTGAGTAACCTGGAAGAAACACTAAAC
CTTTCAAAGTACCAAAATGTGAACACGTGGCAGCACAGGCTGGAGCTGGCCATGGACTATGTCAGCATCATTAAT
TACCTGCACCACAGCCCTGTGGGCACACGGGTTCATGTGCGACTCCAACGACCTGCCGAAGACACTGTCCCAGTAT
CTGCTAACAAAGCAACTTCAGCATTTTGGCAAATGACTTGGACGCCCTTACCCCTGGTGAACCACAGCTCCGGGATG
CTGGTGAAGTGCGGCCACAGGGAGCTGCATGGGGATTTCGTGGCTCCAGAGCAACTGTGGCCCTATGGAGAGGAC
GTGCCTTTCCACGATGATCTCATGCCCTCATATGATGAGAAGATTGACATTTGGAAGATCCCAGACATCTCCAGT
TTCTTTCTGGGGCACATTGAAGGGAGTGATATGGTCCGATTCCATTTGTTTGATATTACAAAGCATGCAAGAGC
CAGACTCCCTCAGAAAGACCCACTGCCCAGGACGTTCTGGAGACCTACCAGAAGGTCTTGATACACTTAGAGAT
GCCATGATGTCTCAGGCAAGAGAGATGCTGTGAAAAACCAGTCCAGCCAATGAAGGTGGGATTGAAGGGCTGAATG
GAAGTTACAGCATTCTACTCTGATGGTGGAGTTTTTGCCTGAGTTTCGTGTTTTATTGTTTTTTTTTATGGCTTA
GCCATGTGGTTCGTTGTCCACATCCACATGTACGTTTGTATGTAGTCCACATTGGTTGTTAGATTTTTTTTTTTT
TTCTTTGAGATGCGGTCTTGCTCTGTTGCTGAGGCTGGAGTGCACTGATGTGATCTTGGCTCACTGCAGCCTCTG
CCTCCCAGGTTCAAGCAATTCTCCACCTCAGCCTCCAAAGTGCTGGGATTACAGGCGTGAGCCACTGCGCCCCGG
CCACATTCAGTTCTTATCAAAGAAATAACCCAGACTTAATCTTGAATGATACGATTATGCCCAATATTAAGTAAA
AAATATAAGAAAAGGTTATCTTAAATAGATCTTAGGCAAAATACCAGCTGATGAAGGCATCTGATGCCTTCATCT
GTTCACTCATCTCCAAAAACAGTAAAAATAACCACTTTTTGTTGGGCAATATGAAATTTTTAAAGGAGTAGAATA
CCAAATGATAGAAACAGACTGCCTGAATTGAGAATTTTGATTTTTTAAAGTGTGTTTCTTTCTAAATTGCTGTTT
CTTAATTTGATTAATTTAATTCATGTATTATGATTAAATCTGAGGCAGATGAGCTTACAAGTATTGAAATAATTA
CTAATTAATCACAATGTGAAGTTATGCATGATGTAAAAAATACAAACATTCTAATTAAGGCTTTGCAACACCA
AAAAAAAAAAAAAAAAA

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FIGURE 1049

MEKQPQNSRRGLAPREVPPAVGLLLIMALMNTLLYLCLDHFFIAPRQSTVDPTHCPYGHFRIGQMKNCS PWLSCE
ELRTEVRQLKRVGEGAVKRVFLSEWKEHKVALS QLTSLMKDDFLHGLQMLKSLQGTHVVTL LGYCEDDNTMLTE
YHPLGSLSNLEETLNLSKYQNVNTWQHRLELAMDYVSIINYLHHSPVGTRVMCDSDNLPKTL SQYLLTSNFSILA
NDLDALPLVNHSSGMLVKCGHRELHGDFVAPEQLWPYGEDVFFHDDLMP SYDEKIDIWKIPDISSFLLGHIEGSD
MVRFHLEFDIHKACKSQTPSERPTAQDVLETYQKVLDTLRDAMMSQAREML

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FIGURE 1050

CGCGGGCCGACTGGTGTTTTATCCGTCACCTCGCCGAGGTTCCCTTGGGTCATGGTGCCAGCCTGACTGAGAAGAGGA
CGCTCCCGGGAGACGAATGAGGAACCACCTCCTCCTACTGTTCAAGTACAGGGGCCTGGTCCGCAAAGGGAAGAA
AAGCAAAAGACGAAAATGGCTAAATTCGTGATCCGCCCAGCCACTGCCGCCGACTGCAGTGACATACTGCGGCTG
ATCAAGGAGCTGGCTAAATATGAATACATGGAAGAACAAGTAATCTTAAGTAAAAAGATCTGCTAGAAGATGGT
TTTGGAGAGCACCCTTTTACCACTGCCTGGTTGCAGAAGTGCCGAAAGAGCACTGGACTCCGGAAGGACACAGC
ATTGTTGGTTTTGCCATGTACTATTTTACCTATGACCCGTGGATTGGCAAGTTATTGTATCTTGAGGACTTCTTC
GTGATGAGTGATTATAGAGGCTTTGGCATAGGATCAGAAATCTGAAGAATCTAAGCCAGGTTGCAATGAGGTGT
CGCTGCAGCAGCATGCACCTTCTTGGTAGCAGAATGGAATGAACCATCCATCAACTTCTATAAAAGAAGAGGTGCT
TCTGATCTGTCCAGTGAAGAGGGTTGGAGACTGTTCAAGATCGACAAGGAGTACTTGCTAAAAATGGCAACAGAG
GAGTGAGGAGTGCTGCTGTAGATGACAACCTCCATTCTATTTTAGAATAAATTCCCAACTTCTCTTGCTTTCTAT
GCTGTTTGTAGTGAAATAATAGAATGAGCACCCATTCCAAAGCTTTATTACCAGTGGCGTTGTTGCATGTTTGAA
ATGAGGTCTGTTTAAAGTGGCAATCTCAGATGCAGTTTGGAGAGTCAGATCTTCTCCTTGAATATCTTTGATA
AACAACAAGGTGGTGTGATCTTAATATATTTGAAAAAACTTCATTCTCGTGAGTCATTTAAATGTGTACAATGT
ACACACTGGTACTTAGAGTTTCTGTTTGATTCTTTTTTAATAAACTACTCTTGATTTAAAAA
AAAAAAAAA
AAAAAAAAA

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FIGURE 1051

MAKFVIRPATAADCSDILRLIKELAKYEYMEEQVILTEKDILLEDGFGEHPFYHCLVAEVPKEHWTPEGHSIVGFA
MYFTYDPWIGKLLYLEDDFFVMSDYRGFGIGSEILKNLSQVAMRCRCSSMHFLVAEWNEPSINFYKRRGASDLSS
EEGWRLFKIDKEYLLKMATEE

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FIGURE 1052

ATATCTTATAAATGAAGTCTCCTCATTTTCTGTGGTCAGAAGAGAGGGGGCAAGCAGAAAAGCAGAGGAACAAA
TTTGGAGGCTAAAATAACATTCTACATAAGGAACATACTACAGTAGAATTAATTGATAGCAGGGATTAAGAGAT
GTAAATGAATTTGAGATACATATTCTAGAGGTAGAATGTGCAATACTTTTTGTATGTCCATATACAGAAATTGGT
TGCATTTTCTTAAATAAAAAGATTTTTTAAAAGTTAGTGAGCTGTTATGTTTTCTTCCCTCTGACTTCAATTCC
TTGATTCTTTCAATTTTTTTAATATAAAATTTACTGTCTAAAAGCTGGATCAGCTTATGCTCCTTTGTTGAGAGAA
GTTGGCATGCTGTCAAGTGGGCTGGGCACACTGAGTTTCAGTTTCTTTCTCTGAGTCTTTGAAGCTTCAAGGCT
GCTGAATAATTTCTTCTCCCATTTTGTGCCTGCCTAGCTATCCAGACAGAGCAGCTACCCCTCAGCTCTAGCTGA
TACTACAGACAGTACAACAGATCAAGAAGTATGGCAGTGACAACCTCGTTTGACATGGTTGCACGAAAAGATCCTG
CAAAATCATTTTGGAGGGAAGCGGCTTAGCCTTCTCTATAAGGGTAGTGTCCATGGATTCCGTAATGGAGTTTTG
CTTGACAGATGTTGTAATCAAGGGCCTACTCTAACAGTGATTTATAGTGAAGATCATATTATTGGAGCATATGCA
GAAGAGAGTTACCAGGAAGGAAAAGTATGCTTCCATCATCTTTTTTGCACTTCAAGATACTAAAAATTCAGAATGG
AACTAGGACTATGTACACCAGAAAACACTGTTTTGTTGTGATGTTACAAAATATAAATCCCAACTAATTTCCAG
ATAGATGGAAGAAATAGAAAAGTGATTATGGACTTAAAGACAATGGAATCTTGGACTTGCTCAAAATTTGTAAT
ATCTCTATTTCAGGATTATGAAGTTTTTCGATGCGAAGATTCAGTGGATGAAAGAAAGATAAAAGGGGTCATTGAG
CTCAGGAAGAGCTTACTGTCTGCCTTGAGAACTTATGAACCATATGGATCCCTGGTTCAACAAATACGAATTCGT
CTGCTGGGTCCAATTGGAGCTGGGAAGTCCAGCTTTTTCAACTCAGTGAGGTCTGTTTTCCAAGGGCATGTAACG
CATCAGGCTTTGGTGGGCCTAATACTGGGATATCTGAGAAGTATAGGACATACTTATTAGAGACGGGAAA
GATGGCAAATACCTGCCGTTTATTCTGTGTGACTCACTGGGGCTGAGTGAGAAAGAAGCGGCCCTGTGCAGGGAT
GACATATTCTATATCTTGAACGGTAACATTCTGTATAGATACCAGTTTAAATCCCATGGAATCAATCAAATTAAT
CATCATGACTACATTGATTCCCCATCGCTGAAGGACAGAATTCATTGTGTGGCATTGTATTGATGCCAGCTCT
ATTCAATACTTCTCCTCTCAGATGATAGTAAAGATCAAAAGAATTCGAAGGGAGTTGGTAAACGCTGGTGTGGTA
CATGTGGCTTTGCTCACTCATGTGGATAGCATGGATTTGATTACAAAAGGTGACCTTATAGAAATAGAGAGATGT
GAGCCTGTGAGGTCCAAGGTAATGAATGATGCCCTTCGTAAACACATTTTCTGGGCTAGAGGAAGTCCAAAGAAA
ACAGAGTAAACATCTGCCAACGTTTATTGACAGTGCTGAGCAGTGACAGATAAATATTTGGAACCTAGGCAGTTT
GATTCTAGAGGTAAAATAGTCTAAACAAGAATTAAACGTTAAACTGGTCTAATAAAATCTACTTATCCAGAGAAT
GTTTTTTAAAAGAAAACAGGAAATATATGGACTGTAGGATAGGTGTCATAAAAATTTTGTCTTAAATCATTTAGA
ATCCACTGCATGTATTCCAAATTACAATTATCAGTGACATTAGAAGTTGATATGTGAAGTTCTTCAAGAGTACTT
TGAGAGACCAGATCTCCATTTTTTCCAATGGGAAATTATTGCAAGTTCTTACATCTTGATATTGCTTTTCGTAAT
TTATACTAACATAAAATAATTTTTCTACTGTTTTGCAATGCTTTTTAATTTCTGTATTGCAGCTAGAGGAAGT
CCAAAGAAAACCTGGATTGCTCTTTCTGACATCTCGGTGGTTAGCAATTATTCCTCTGAGTGGGAGCTGGACCC
TGTAAGGATGTTCTAATCTTTCTGCTCTGAGACGAATGCTATGGGCTGCAGATGACTTCTTAGAGGATTTGCC
TTTTGAGCAAATAGGTAGATGTGTTGGTGGTGTGGAAGCTTGAAGCGGTCAGGTAGTTGGCTACTTTCTGCTT
GGATCTATTAAATACCTGGCAGCTCTCTGCTTTTTGTGGGTTGTTGCCCTGTGATTAGTTCTGCTTTTTAACC
ACTCCCTGGATGCATTTTTCCCTCCTTGCAATTTCCCTCTTTTCTGGAGTTCATACTAGAGAATCTGCATATGT
TTTTCCCTTTTTGTCTTGAGATGAAAGTTTTAAATAATCCACCTCTGTCAATTTCCACTCTCTGAACATCCCAAG
CTGATCCCTGGCCTCTTTCTCAGACTATGTTTCTTTACTTGGGACCTAGAAGTGGATTGGATTGGCATTGCTC
CTGATCAGATGAGACCTTTGATTATTTGCCCTTCTTAGGACCTTACACTCCTGTCTTTCTTTGACTTGCCTTT
TTGTTTCTTTCTTCTCATCTTAGTCCCTCTTCATGCAGTATGGTCATTGCTAGGTAGAGGTATGTCTTTTATGTA
ATGGCCACCGCATTTAGTATTACATAAACTTTCTTTTAAACAATCTGTGCATAGTACATGCTGCTCTGTTCCATTT
AGAGATTTGACAGAGGTTTCAGTTTAGTATACTCAAATCTTATTTTAGTGCTTGGGAAATCAATTCAGAATATCA
CATCTCTCCAATTCTCTTACTCAAATGCTGGGAACTCTCATGTTACTAATCTTTGTTGCTCTAATCTGCTC
ATCTTGGTTTTCCCATCCCTTCTCTTCTCATGGTACGTGTGCTCCTAATATTAGCGTTGGTTGAGATTTTCAGT
GGTCCAATATTCTCTTCCCTCTGGTTGCCTTTCTGAGATAATCCACTAAGAATATTTTGTGTTCTTTTCTCA
GGGAATCTAAGGGAGGAAATTATCAACTGTGCACAAGGAAAAAATAGATATGTGAAAGGTTACAGTAAATTTCC
TCACATCACAGAAGATTAAATTCAGAAAGGAGAAAACACAGACCAAGAGAAGTATCTAAGACCAAGGGATGT
GTTTTATTAATGTCTAGGATGAAGAAATGCATAGAACATTGTAGTACTTGTAAATAACTAGAAATAACATGATTT
AGTCATAATTGTGAAAAATAATAAATTTTTCTTGGATTTATGTTCTGTATCTGTGAAAAATAAATTTCTTAT
AAAACCTCGGAAGTATGTAGTCGGGTACCG

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FIGURE 1053

MAVTTRLTLWLHEKILQNHFGGKRLSLLYKGSVHGFRNGVLLDRCCNQGP TLTVIYSEDHII GAYAEESYQEGKYA
SIILFALQDTKISEWKLGLCTPETLFCCDVTKYNSPTNFQIDGRNRKVIMDLKT MENLGLAQNCTISIQDYEVFR
CEDSLDERKIKGVIELRKSLLSALRTYEPYGSLVQQIRILL LGPIGAGKSSFFNSVRSVFQGHVTHQALVGTNTT
GISEKYRTYSIRDGKDGKYL PFI LCDSLGLSEKEGGLCRDDIFYILNGNIRDYQFNPMESIKLNHHDYIDSPSL
KDRIHCVAFVFDASSIQYFSSQMIVKIKRIRREL VNAGVVH VALLTHVDSMDLITKGD LIEIERCEPVRSKVMND
ALRKHIFWARGSPKKTE

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FIGURE 1054A

TCCGGGTATGGATGTCAATCTTTTGTCTACAATGTGAATACATTTATCCTTCGGGGACCATCAAGACTTTTCAGGA
AAGGCCCCGCTGTCTCTGCGCGGCCACTTTGTCTGGGACAAAGGTCAACTGAAGAAGTGGGCAGGCCCCGAGGCAG
GAGAGATGCTGAGGAGTCCATGTGCAGGGGAGGGAAAGGGAGAGGCAGTCAGGGAGAGGAGGAGGAGGTACCGCC
AGAAGGGGATCCTCCCGCTCCGAAAACCAGACACCGGGTCTTGCCCTGTGGTCCAGGCAGGAGTGCAGTGGTGCA
ACCTCAGCTCACTGCAGCCTTGACCTCCCCGGGCTCAAGCGATCCTCCGGCCACAGCACTTGCTGTTTCAGCGGC
TGGAGGAGCAGGGCCCCAGGTCTCCCCACCCTCACCTGCTGCTCCAGGTCGTGGCCGTCTTGCTCTTCCAGGT
CCTTCTCTAGGGATGCAATATTACATTGCTAAGATGCAGGTCTAACGCAGAACCTGTCAACAGAGCCCCCATC
ATCCACAGCCCCACCCAGCGCTGCAGAGCTCAGGAAGCCTAGCTGAGGAGGACGACCGTCCCACCTGGGCTTAGAG
TGAGACCAAGGGCAGAAGGCGTGGGAGTTGCTGGGGCAGCCAGGGAAGGACACCCCCAGCCCGTCTCGCAGCCCC
CCCACAGGCAGTGGGAGGCTTGCTGTTTCTCCGGCAAACGGGCATGCTCAGTGGGCCGGGCGGCAGGTTTGC
GTGGCCGCTGAGTTGCCGGCGCCGGCTGAGCCAGCGGACGCCGCTTCTTGCGCGCCGCGGTTCCCGGGAAGT
TACGTGGCGAAGCCGGCTTCCGAGGAGACGCCGGGAGGCCACGGGTGCTGCTGACGGGCGGGCGACCGGGCGAGG
CCGACGTGGCCGGGCTGCGAAAGCTGCGGGAGGCCGAGTGGGTGACCGCGCTCGGAGGGAGGTGCCGGTCGGGCG
CGCCCCGTGGAGAAGACCCGGGCGGGGCGGGCGCTTCCCGACTTTTGTCCGAGTTGAATTCCTCCCCCTGGGC
CGGGCCCTTCCGTCCGCCCCCGCCCGTCCCCGCTCGCTCTCGGGAGATGTTTATTTGGGCTGTGGCGTGAGGAG
CGGGCGGGCCAGCGCCGCGGAGTTTCCGGTCCGAGGAGCCTCGCGCGGCGCTGGAGAGAGACAAGATGTCCGCCA
GAGCTGCGGCCGCCAAGAGCACAGCAATGAGGAGAAACAGCTATATGGGAACAACATACAGTGACGCTTCACAGGG
CTCCTGGATTTGGATTTGGAATTGCAATATCTGGTGGACGAGATAATCCTCATTTCAGAGTGGGGAACGTCAA
TAGTGATTTTCAGATGTGCTGAAAGGAGGACCAGCTGAAGGACAGCTACAGGAAAATGACCGAGTTGCAATGGTTA
ACGGAGTTTCAATGGATAATGTTGAACATGCTTTTGTGTTTTCAGCAACTAAGGAAAAGTGGGAAAAATGCAAAAA
TTACAATTAGAAGGAAGAAGAAAGTTCAAATACCAGTAAGTCGTCCTGATCCTGAACACAGTATCTGATAATGAAG
AAGATAGTTATGATGAGGAAATACATGATCCAAGAAGTGGCCGGAGTGGTGTGGTTAACAGAAGGAGTGAGAAGA
TTTGGCCGAGGGATAGAAGTGCAAGTAGAGAGAGGAGCTTGTCCCGCGGTCAGACAGGCGGTGAGTGGCTTCCA
GCCAGCCTGCTAAACCTACTAAAGTCACACTGGTGAAATCCCGGAAAAATGAAGAATATGGTCTTCGATTGGCAA
GCCATATATTTGTTAAGGAAATTTCAAGATAGTTTGGCAGCAAGAGATGGCAATATTCAAGAAGGTGATGTTG
TATTGAAGATAAATGGTACTGTGACAGAAAATATGTCATTGACAGATGCAAAGACATTGATAGAAAGGTCTAAAG
GCAAATTAAGAAATGGTAGTTCAAAGAGATGAACGGGCTACGCTATTGAATGTCCCTGATCTTTCTGACAGCATCC
ACTCTGCTAATGCCTCTGAGAGAGACGACATTTAGAAATTCAGTCACTGGCATCAGATCATTCTGGTTCGATCAC
ACGATAGGCCTCCCCGCCGAGCCGGTCACGATCTCCTGACCAGCGGTGAGAGCCTTCTGATCATTCCAGGCACT
CGCCGAGCAGCCAAGCAATGGCAGTCTCCGGAGTAGAGATGAAGAGAGAATTTCTAAACCTGGGGCTGTCTCAA
CTCCTGTAAAGCATGCTGATGATCACACACCTAAAACAGTGAAGAAGTTACAGTTGAAAGAAATGAGAAAACAAA
CACCTTCTCTTCCAGAACCAAGCCTGTGTATGCCCAAGTTGGCAACCAGATGTGGATTTACCTGTGAGTCCATC
TGATGGTGTCTACCTAATTCAACTCATGAAGATGGGATTTCTTCGGCCAGCATGAAATTGGTAAATTCAGAA
AAGGAGATAGTGTGGGTTTGGCGCTGGCTGGTGGAAATGATGTTGGAATATTTGTAGCTGGCGTTCTAGAAGATA
GCCCTGCAGCCAAGGAAGGCTTAGAGGAAGGTGATCAAATCTCAGGGTAAACAACGTAGATTTTACAAATATCA
TAAGAGAAGAAGCCGTCTTTTCTGCTTGACCTCCCTAAAGGAGAAGAAGTGACCATATTGGCTCAGAAGAAGA
AGGATGTTTATCGTCGATTGTAGAATCAGATGTAGGAGATTCTTTCTATATTAGAACCCATTTTGAATATGAAA
AGGAATCTCCCTATGGACTTAGTTTTAACAAAGGAGAGGTGTTCCGTGCTGTGGATACCTTGTAACATGGAAAAC
TGGGCTCTTGGCTTGCTATTTCGAATTGGTAAAAATCATAAGGAGGTAGAACGAGGCATCATCCCTAATAAGAACA
GAGCTGAGCAGCTAGCCAGTGACAGTATACACTTCCAAAAACAGCAGGCGGAGACCGTGTGACTTCTGGAGAT
TCAGAGGTCTTCGCAGCTCCAAGAGAAATCTTCGAAAAAGCAGAGAGGATTTGTCCGCTCAGCCTGTTCAAACAA
AGTTTCCAGCTTATGAAAGAGTGGTTCTTCGAGAAGCTGGATTTCTGAGGCCTGTAACCATTTTTGGACCAATAG
CTGATGTTGCCAGAGAAAAGCTGGCAAGAGAAGAACCAGATATTTATCAAATTGCAAAGAGTGAACACGAGACG
CTGGAAGTGACCAACGTAGCTCTGGCTATATTGCGCTGCATACAATAAAGCAAATCATAGATCAAGACAAACATG
CTTTATTAGATGTAACACCAAATGCAGTTGATCGTCTTAAGTATGCCAGTGGTATCCAATTGTTGATTTCTTA
ACCCTGATTCTAAGCAAGGAGTAAAAACAATGAGAATGAGGTTATGTCCAGAATCTCGGAAAAGTGCCAGGAAGT
TATACGAGCGATCTCATAAACTTGCTAAAAATAATCACCATCTTTTTACAACATAAATTAATTAATTAATGA
ATGATGGTTGGTATGGTGCCTGAAAGAAGCAGTTCAACAACAGCAAAACCAGCTGGTATGGGTTTCCGAGGGAA

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FIGURE 1054B

AGGCGGATGGTGTCTACAAGTGATGACCTTGATTGTCATGATGATCGTCTGTCCTACCTGTCAGCTCCAGGTAGTG
AATACTCAATGTATAGCACGGACAGTAGACACACTTCTGACTATGAAGACACAGACACAGAAGGCGGGCCTACA
CTGATCAAGAACTAGATGAAACTCTTAATGATGAGGTTGGGACTCCACCGAGTCTGCCATTACACGGTCCTCTG
AGCCTGTAAGAGAGGACTCCTCTGGAATGCATCATGAAAACCAAACATATCCTCCTTACTCACCACAAGCGCAGC
CACAACCAATTTCATAGAATAGACTCCCCTGGATTTAAGCCAGCCTCTCAACAGAAAGCAGAAGCTTCATCTCCAG
TCCCTTACCTTTTCGCTGAAACAAACCCAGCATCATCAACCTCTGCTGTAAATCATAATGTAAATTTAACTAATG
TCAGACTGGAGGAGCCCACCCAGCTCCTTCCACCTCTTACTCACCACAAGCTGATTCTTTAAGAACACCAAGTA
CTGAGGCAGCTCACATAATGCTAAGAGATCAAGAACCATCATTGTCGTCGATGTAGATCCAACAAAGGTGTATA
GAAAGGATCCATATCCCAGGAAATGATGAGGCAGAACCATGTTTTGAAACAGCCAGCCGTTAGTCACCCAGGGC
ACAGGCCAGACAAAGAGCCTAATCTGACCTATGAACCCCACTCCCATACGTAGAGAAACAAGCCAGCAGAGACC
TCGAGCAGCCCACATACAGATACGAGTCCCTCAAGCTATACGGACCAGTTTTCTCGAAACTATGAACATCGTCTGC
GATACGAAGATCGCGTCCCCATGTATGAAGAACAGTGGTCATATTATGATGACAAACAGCCCTACCCATCTCGGC
CACCTTTTGATAATCAGCACTCTCAAGACCTTGACTCCAGACAGCATCCCGAAGAGTCCCTCAGAACGAGGGTACT
TTCCACGTTTTGAAAGAGCCAGCCCCCTCTGTCTTACGACAGCAGACCACGTTACGAACAGGCACCTAGAGCATCCG
CCCTGCGGCACGAAGAGCAGCCAGCTCCTGGGTATGACACACATGGTAGACTCAGACCCGAAGCCAGCCCCACC
CTTCAGCAGGGCCCAAGCCTGCAGAGTCCAAGCAGTATTTTGAGCAATATTCACGCAGTTACGAGCAAGTACCAC
CCCAAGGATTTACCTCTAGAGCAGGTCATTTTGAGCCTCTCCATGGTGCTGCAGCTGTCCCTCCGCTGATACCTT
CATCTCAGCATAAGCCAGAAGCTCTGCCTTCAAACACCAAACCACTGCCTCCACCCCAACTCAAACCGAAGAAG
AGGAAGATCCAGCAATGAAGCCACAGTCTGTACTCACCAGAGTTAAGATGTTTGAAAACAAAAGATCTGCATCCT
TAGAGACCAAGAAGGATGTAAATGACACTGGCAGTTTTAAGCCTCCAGAAGTAGCATCTAAACCTTCAGGTGCTC
CCATCATTGGTCCCAAACCCACTTCTCAGAATCAATTCAGTGAACATGACAAAACCTCTGTACAGGATCCCAGAAC
CTCAAAAACCTCAACTGAAGCCACCTGAAGATATTGTTCCGGTCCAATCATTATGACCCTGAAGAAGATGAAGAAT
ATTATCGAAAACAGCTGTCTACTTTGACCGAAGAAGTTTTGAGAATAAGCCTCCTGCACACATTGCTGCCAGCC
ATCTCTCCGAGCCTGCAAAGCCAGCTCATTCTCAGAATCAATCAAATTTTTCTAGTTATTCTTCAAAGGGAAAGC
CTCCTGAAGCTGATGGTGTGGATAGATCATTGGCGAGAAACGCTATGAACCCATCCAGGCCACTCCCCCTCCTC
CTCCATTGCCCTCGCAGTATGCCAGCCATCTCAGCCTGTACCAGCGCTCTCTCCACATACATTCTAAGGGAG
CACATGGTGAAGGTAATTCAGTGTCTATTGGATTTTCAGAATTCCTTAGTGTCAAAACAGACCCACCTCCATCTC
AGAATAAGCCAGCAACTTTCAGACCACCAAACCGAGAAGATACTGCTCAGGCAGCTTTCTATCCCCAGAAAAGTT
TTCCAGATAAAGCCCCAGTTAATGGAACCTGAACAGACTCAGAAAACAGTCACTCCAGCATACAATCGATTACAC
CAAAACCATATACAAGTTCTGCCCGACCATTTGAACGCAAGTTTGAAAGTCCTAAATTCAATCACAATCTTCTGC
CAAGTGAAACTGCACATAAACCTGACTTGTCTTCAAAAACCTCCACTTCTCCAAAAACCTTGTGTGAAATCGCACA
GTTTGGCACAGCCTCCTGAGTTTGACAGTGGAGTTGAACTTTCTCTATCCATGCAGAGAAGCCTAAATATCAAA
TAAATAATATCAGCACAGTGCCCTAAAGCTATTCTGTGAGTCCTTCAGCTGTGGAAGAGGATGAAGATGAAGATG
GTCATACTGTGGTGGCCACAGCCCGAGGCATATTTAACAGCAATGGGGGCGTGCTGAGTTCCATAGAACTGGTG
TTAGTATAATTATCCCTCAAGGAGCCATTCCCGAAGGAGTTGAGCAGGAAATCTATTTCAAGGTCTGCCGGGACA
ACAGCATCCTTCCACCTTTAGATAAAGAGAAAGGTGAAACACTGCTGAGTCCTTTGGTGATGTGTGGTCCCCATG
GCCTCAAGTTTCTGAAGCCTGTGGAGCTGCGCTTACCACACTGTGATCCTAAACCTGGCAAAACAAGTGTCTTC
CCGGAGATCCAAATTATCTCGTTGGAGCAAACCTGTGTTTCTGTCTTATTGACCACTTTTAACTCTTGAAATATA
GGAACCTAAATAATGTGAAACTGGATTAAACCTTAATCTAAATGGAACCACTCTATCAAGTATTATACCTTTTTTA
GAGTTGATACTACAGTTTGTAGTATGAGGCATTTGTTTGAACCTGATAAAGATGAGTGAGCATGCCCTGAACCA
TGGTCCGAAAACATGCTACACACTGCATGTTTGTGATTGACGGGACTGTTGGTATTGGCTAGAGGTTCAAAGATA
TTTTGCTTTGTGATTTTTGTAAATTTTTTATCGTCACTGCTTAACTTCACATATTGATTCCGTTAAATACCAG
CCAGTAAATGGGGGTGCATTTGAGGTCTGTTCTTTCAAAGTACACTGTTTCAAACCTTACTATGGCCCTGGCCT
AGCATACGTACACATTTTATTTTATTATGCATGAAGTAATATGCACACATTTTTTAAATGCACCTGGAATATATA
ACCAGTGTGTGGATTTAACAGAAATGTACAGCAAGGAGATTTACAACCTGGGGGAGGGTGAAGTGAAGACAATGA
CTTACTGTACATGAAAACACATTTTTCTTAGGGAAGGATACAAAAGCATGTGAGACTGGTTCCATGGCCTCTTCA
GATCTCTAACTTCACCATATTACCACAGACATACTAACCAGCAGAAATGCCTTACCCTCATGTTCTTAATCTTA
GCTCATTCTCCTTGTGTTACTAAGTTTTTATGGCTTTTGTGCATTATCTAGATACTGTATCATGACAAAGACTGA

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FIGURE 1055

MEETAIWEQHTVTLHRAPGFGFGIAISGGRDNPHFQSGETSIVISDVLKGGPAEGQLQENDRVAMVNGVSMDNVE
HAFVQQLRKSGKNAKITIRKKKVQIPVSRPDPEPVSDNEEDSYDEEIHDPERSGRSGVVNRSEKIWPRDRSAS
RERSLSPRSDRRSVASSQPAKPTKVTLVKSRKNEEYGLRLASHIFVKEISQDSLAAARDGNIQEGDVVLKINGTVT
ENMSLTDAKTLIERSKGKLMVVQORDERATLLNVPDLSDSIHSANASERDDISEIQSLASDHSGRSHDRPPRRSR
SRSPDQRSEPSDHSRHSPQQPSNGSLRSRDEERISKPGAVSTPVKHADDHTPKTVEEVTVVERNEKQTPSLPEPKP
VYAQVGNQMWIYLSVHLMVSYLIQLMKMGFLRPSMKLVKFRKGDVGLRLAGGNDVGIFVAGVLEDSAPAAKEGLE
EGDQILRVNNVDFTNIIREEAVLFLDLDPKGEEVTLAQKKKD VYRRIVESDVGDSFYIRTHFEYEKESPYGLSF
NKGEVFRAVDTLYNGKLGSLAIRIGKNHKEVERGIIPNKNRAEQLASVQYTLPTAGGDRADFWRFRGLRSSKR
NLRKSREDLSAQPVQTKFPAYERVVLREAGFLRPVTIFGPIADVAREKLAREEPDIYQIAKSEPRDAGTDQRSSG
YIRLHTIKQIIDQDKHALLDVTPNAVDRLNYAQWYPIVVFLNPD SKQGVKTMRLCPESRKSARKLYERSHKL
KNNHHLFTTTINLNSMNDGWYGALKEAVQQQNQLVWVSEKADGATSDDLHLHDDRLSYLSAPGSEYSMYSTDS
RHTSDYEDTDTEGGAYTDQELDETLNDEVGTPPESAITRSSEPVREDSSGMHHENQTYPPYSPQAQPOP IHRIDS
PGFKPASQQKAEASSPVYLSPETNPASSTSAVNHNVNLTNVRLEETPAPSTSYSPQADSLRTPSTEAAHIMLR
DQEPSLSSHVDPTKVYRKDPYPEEMMRQNHVLKQPAVSHPGHRPDKEPNLTYPQLPYVEKQASRDLEQPTYRYE
SSSYTDQFSRNYEHLRYEDRVPMYEEQWSYDDKQPYPSRPPFDNQHSQDLDSRQHPEESSERGFYPRFEPPAP
LSYDSRPRYEQAPRASALRHEEQPAPGYDTHGRLRPEAQPHPSAGPKPAESKQYFEQYSRSYEQVPPQGFTSRAG
HFEPLHGAAVPPPLIPSSQHKPEALPSNTKPLPPPTQTETEEEDPAMKPQSVLTRVKMFENKRSASLETKKDVND
TGSFKPPEVASKPSGAPIIGPKPTSQNFSEHDKTLYRIPEPQKPKLPKPEDIVRSNHYDPEEDEEYRKQLSYF
DRRSFENKPPAHIAASHLSEPAKPAHSQNSQSNFSSYSSKGPPEADGVDRSFGEKRYEPIQATPPPPPLPSQYAAQ
PSQPVTSASLHIHSGAHGEGNSVSLDFQNSLVSKPDPPPSQNKPATFRPPNREDTAQAAFYPQKSFPDKAPVNG
TEQTQKTVTPAYNRFTPKPYTSSARPFERKFESPKFNHNLPSSETAHKPDLSKPTPTSPKTLVKSHSLAQPEFD
SGVETFSIHAEKPKYQINNISTVPKAI PVSPSAVEEDEDGHTVVATARGIFNSNGGVLSSIETGVSIIIPQGA
IPEGVEQEIYFKVCRDNSILPPLDKEKGETLLSPLVMCGPHGLKFLKPVELRLPHCDPKTWQNKCLPGDPNYLVG
ANCVSVLIDHF

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FIGURE 1056

GCCCTTTCTGCCTCTGCGGGGCTCTGGTCGCCGGCCAAGGAAAAACGAGGCTGGACCCCTGAACAGCGCGGGCTAC
CTGCTGGGCCCACATGCCGTTGGCAACCACAGGTCATTCAGCGACAAGAATGGCCTCACCAGCAAGCGGGAGCTG
CGGCCCAGATGACATGAAACCAGGAAGCTTTGACAGGTCCATACCTGAAAACAATATCATGCGCACAATCATT
GAGTTTCTGTCTTTCTTGCATCTCAAAGAGGCCGGTGCCCTCGACCGCCTCCTGGATCTCCCCGCCGCAGCCTCC
TCAGAAGACATCGAGCGGTCCTGAGAGCCTCCTGGGCACGTTTGTCTGTGTGCTGTAACCTGAAGTCAAACCTTA
AGATAATGGATAATCTTCGGCCAATTTATGCGGAGTCAGCCATTCTGTTCTCTTTGCCTTGATGTTGTGTTGTT
ATCATTTAAGATTTTTTTTTTTTTTGGTAATTATTTTGAGTGGCAAATAAAGAATAGCAATTA

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FIGURE 1057

ALSASAGLWSPAKEKRGWTLNSAGYLLGPHAVGNHRSFSDKNGLTSKRELRPEDDMKPGSFDRSIPENNIMRTII
EFLSFLHLKEAGALDRLLDLPAAASSED IERS

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FIGURE 1058A

TATTTTGACATGCAAGAGGAGCAGGCATTCCAGGTATTTGAATACTGAGAGATTCAAATTATCAGCAAGGTTCTT
TCCAGTTCACGTTTTGTTGTGTTATCAGTGTAATAATTATTTGAATAGCTTCCACTGATGAGTTATTAGCTGATA
AGTGTATTATTGTCATGGTTGAAAGAAAATAATAATGAAAGAAGAAACGATTACCTTTAGTGATAAAGTTGGGGCC
GGATGGGACGAAGCAGTGCAATTTTTTTCTTTATAATTATCCCTATTTGAAAAATCAACTGTATATGAGGCA
GCAACACCTTGCAGAGCAGCATTCCCTTTTAGTTTCAGGACGTGGTGGTGGATGGAACCACTGTAACCTGGCCT
CCCTCCATGAGAGGAGGGAATCCAGGTGGCCATGTTGAAATGTGCCTGTGTGCAGCAAGGCTTCTGAAATGACAA
GAGAGCCCAGCAGCTTCCAAAGCAGCTGTGACTCTGGATCTCACCCATCATCTCTGCTTCTCACTGTTAGAGGAG
TGAATCTGTGCTGCCTTAGGAGGCATGGAACCTGGGACTTTTCTTCCTTGTTTAAATGTTTAAATTTTATTAATA
ATTTGTAAGTGATAGATGTTGATCTCGTGACAAAAGAGAGATTCCCTCTTTATAAACTATTCTAACTAAAGATC
TTTTGTAAGCCCATGTGTTAGAAATAAACTTGAATATCCCTTTTTTGTGTTGTTTATGAATGGCCAATAATT
TATTCACATGTGACATTTGAGCTGGCATTTTTTCTCCTGAGATGACAGTAGCGTCCGCTGTGTTGTATTCTAAA
GCAAAGTCAGAATAGCCCTTTGCTTTTGTCCCGATTAGTAGTTCTGTTTTGCCTTCTTGCCCTTTTCCATTTAGAC
CTTATGGTATTTCTAAACCTTAGACTGTTTTGAAAGGCTTTGATTAAATATGCTGATAAAAGAATTCGATAAC
CAAGTTAGGAACGACAAGGCTATCTGGAGAAGACCAAATGACTTGGCAGCCTAACAAATTCTATTAGAGCACAC
AAAGAGATCCTGGAACGTTTTATAGGGACTCGTGTGTGGGGAATGGTATGAACTCAGGTTACCTGCAAAATATGG
TGTCATATGGAAACATTTAAGAGCTTATGGAAAATCTTTGAAATAAAGTGGAATGAGCTAGCAAGCATATTATA
CCTAAGAAGAAAAACAAGAGCATTCACTCTGGTTTTTTAAGGTAGCTGCTCAAGGAAGGGAGATAGATGAAAGTA
AATTGTTTTCTACTTTGTACACATAATATAGAAGAGATCACCTAAGCCTAGTTTTGCTAACAGACCCTAGACTT
AAAATTAGAGGTCATGATGTCTAGCCACCTTCTCTGTAGGAACCTCTCGTGATACCCTGAAAGCCTCTGCTTAA
ATACCTCCAGAGAAAAGTGAGGAAGGTAGGGGTGGGGATGAAGGTTTGCAGGAACCTCATGTTGAGTACCTAGTAT
CTGCAAGATACTAGAGTAGGTACTTTATCGCCATCTCATCTGACTTATGATGAGTGCAGGTTTTATAACCTCA
AGTTTACAAGTGAGGAACTAAGTTTATATAAGTGTCACGAACTTGCTTCAGTTTCAATGTCTAGCTTGAGGCA
AATCTGAAATTAGAACCTAGGTCCATCTTCTGCAATACATAAACTGCCTCTCAGGATGAGGGAGAGCTCCCTT
CATGGCTAAGGCAACCTCTCTGTCTAATAATGCAGATTCTTTAAAAATCTTTCTTTTATTTAACTGAAATCTG
CCTCCCATTAACATCTCTCATTGGTCTGATTGGGCTCAGGAGGATCACAGAGCTGATGCAATTCTCTTTCTT
ATGCAGGTATGTTTGCAACCACTGCTGCCAAAATGGCCTCTGCCATCTTTTACCTAGTTGGTTTTTTTTGAAAT
GAACACACACACACACACACACACACACACACACTCTCACACACACACTCACAGAAATATCCTCT
TATTGACTGCAATCCATCTTTCAACATATGGAGTCTTTTTGAATACTAGAGGTATAGCCTTAAAGAATATGAGT
ATCAGAAGATACTTTAGTTTCATCTTTCCCTGCCTGATTATCAGCCAATTGTTAGTATGCCATCAGTCAAGCCA
TTAATAAAAAATAATGAACAAGGTGAACAGGATAGGTTAACTTGTAGTCTATGTATAAGTTTCCGAGGTTGCATGC
AGAATTTAGCCTATATGTGAATTTTTCTGGAAAAATGGTCAGTAACTATTGTGAGATTCTTTTTTTTTTTTTT
TTTTTTTTGAAGACAAAGTCTTGCTCTCCAGCCTGGGTGACAGGGCAAGATTCCATATTAAAAAAGGATATCCTTAAATTTTT
TTGAGAAGTACTCAGAGTAGAGAACTTACTCCCGAATGAATATACTAACCTCTTTGAGGAGAGCTCCCCAAATGA
CCATAAATTCATATAGCTCAGCCATCACTAGACCGTGATTTCAGCCAGAAGATATGGTGAATGGTCTTGTAAGA
TGCCCTGACTAAATTAAAGTATTAAAGTATTTCTTGAATTCTCTTGATATTCCTGGACTTTGAGAAAGAATAATTA
TGCCCTTAAAAATGGAAGAGAGACTGCAATATTGTTATACAGGCCTTTTAAAAAAGTATCCTTAAATTTTT
AGTTACAGAGTTCACTTTTTTCCCTACTTTTCTTTGTTTTAGATTATAAGCCCAGGATTGTTTACCAGAAGGTT
ACCCTTTAGTCTGCAGGAACCTTTGAAAACAGATGTGGTATTGAAGAATATCTCTGTAAGCCCAGAAGCTTATCCA
TTGTATAAAGAATTTTATTTTCCCCAGTAGACCGGGAGCTCCTCAAGGGCAGGGACCTTTGCAAGTCTTTGACTC
CCTAGCACTGAACCCAGCATCTGGCAAATCTTATTTCAATGTGACTTTATTTTGGCTGAATGGCCTAAAAATGCGC
TTGTACTGAGCACCTAATACATTTAATTTAATTTTTTAAATTTTTTATTCAATAATATAGACATGGAGTCCCCCTAT
GTTGCCACGCTGGCTCAAACCTCTGGCCTCAAGGATGTTCTGCTCGGTCTCCCAAAGTGCTGGGATTACAGG
CATGAGCCACTGCACCAAGCCCTAACACATTTAATAAATTGTAAGGAGGAAGAACAGTGGACCGCAGTGAGATAT
GGTCTACAGGGAAAATGAAGAACCTCTTCAAAAATGATGATCTTCAGGCCTGTAATCCAGAAGCTTTGGGAGCCG
AGGCGGGTGGATCACTTGAGCCCAGGAGTTCAAGACCAGCCTAGGAAACATAGCGAAACCACATCTCTACCGAAA
AATACAAAATTAGCCATGCTTGTAGTCTAGCTATTAATACGTGGGAGGCTGAGGTGGGAAGATGGTTTTGAGTC
CGGGAGGTGGAGGTTACAGTGAGCCACTGTACCCCAACCTGGGTGACAGAGTGAGACCCCATCTCAAAACCAAAA
AAGATGACCTTTATTATGTTTGACTTTTAAAAAATGTAGCCAAAGTAAAAGTGTGATTAGCATAACCCCGATC

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FIGURE 1058B

ACATGTTGTTGTTGAAAATGAGCACTGGCTTGCATAAAATGGACATTCATGGACATGAAATGGACATTAATGATT
TTACATATGTTAAGAAGAGAATTTTAGACTTGAGACCTTAGGGAGATCTGTTGATAGAATCCCTATGCTCTACA
GATAAGGATACTTAGTGAAGGGACTTTCCTAAGCTCACAGACCCAGAAGAGTAGTACTCTTCCAGCCAATGGTG
ATGCTTACTTATGXTTTTTTTTTTTTTTTTTTTTTTTGGAGACGGGGTCTTGCTCTGTCGCCCAGGCTGGAGTGC
AGTGACACGATCTCGGCTCACTGCAGGCTCCGCCTCCCGGGTTCACGCCGTTCTCCTGCCTCAGCCTCCTGAGTA
GCTGGGACTGCGGACGCCCACCACCACGCCCGGCTGATTTTTTGTGTTTTTGGTAGAGACGGGGTTTCGCCGTGT
TAGCCAGGATGGTCTTGATCTCCTGACCTCGTGATCCGTTCCGCCTCGGCCTCCAGAGTGCTGGGATTACAGGTG
TGAGCCACCGCGCCCGGCTACTTATGTGTTTTAGAAAAATCTTTAAATGTTAAAAGATGACAGGTAATTTCTA
GACCATATGAAGTAGCCAGTTGTCCCAGGATTAGTTTATTATGTGTATATCAGCCATTATTTTACAGAGTCATC
TCACATAAATCCACACAACCTTAAAGGATTAAAGGATGGTTTTCTGTGCACTGAAACATATGCACAGAATGACAA
TAGTCGTGATACTTTCTTTATTCTTTTTTTTTTTTTTTTGGAGATGGAGTCTCACTCTGTGCCCCTGGCTGGAGTG
CAGTGGTGTGATCTCGGCTCACTGCAGCCTCCATCTCCCAGATTGAGGCGATTCTCATGCCTCAGCCTCCCGAGT
AGCTGGGATTATAGGTGCACGCCACCCGCTGGGTAATTTTTGTATTTTTTAGTAGAGATGGGGTTTCAGCATGTT
GGCCAGGCTGATCTTGAACTCCTGACCTCAAGTGATCCGCCACCTCAGCCTCCCAAAGTGCTGAGATTACAGG
TGTGAGCCACCACGCCTGGCCAGTCATGCTACTTTATAATCTGAAGTTACCAGTTCTTTGCAGTGTTTCACATTA
GGGGCATTCTCCAAAGGGAACTTTAGAGATAACAAATATGTTAAAAATATCGAATAAAGTTAGAGATGTGGGGAG
ACATTCCTACTCCTACAGAGAGCAACCATACTTCCCTATAGACTGTGCACTGAAGAAAGGGCGGAGGGGATGCGC
CTGTTAGAGTTAGAATCTTGGCTTGATAGGCAAGGAAATTGACCCGGTGTGGTGGTTCTTATATTGGTAAGAAGA
CCCTTCTTTGGTTTCTTTTTTTCCAGATAGCTAAAGTCAATGTCAGTGATTGCTTCAAGCATGATAGTCTTACCA
GCCTACACTCTAAGCTTTTTCTTATGCTTCCAGAATGACTTACTCAGCAATCACTTCTACTTTGTATTAAAAACAGT
TTTGGTTATTACAGGTAGGAAGAAGAGAAAAAAACCAGGCTGTTTCCAGTTGTCTGGGGTTTACATTATGTTACCT
CTCAGACTGTTAGTGAAATCAGGGAGACTAGTGGTTTTTACGGCATCAGAGATACCAAATGTATAACAGACAGAT
GTCATCTTACTCTTTTTAAGTCATGGACAAAAAGACAGACACATTGCCCTGTAACCTTTCAGATCTTCTGTAACCT
TTTTAAACAACATAGGAGAGAAGTTGGTACTTGTACCCAAGGGAAGAGAAAGTTAATGAGTAGAAAAGACAGAAT
TTATTTAGGAAAACGATGGAATTAAGCTCTGGACAAAACATGCATCAGTGATGCATAACATTTTTGTTAATTGGG
TCTTAACAGGTTTCTGACTCATATGGTAATCATTGTAGAAGTGGGTCTTACTAGACCACGCCAGTGGCAAATCGC
GAAGCTGTAAGAACTCTTACCTCCCTGTGTGTGTGCACCTGAGTGTGTGGGGGGCGTACGTTTCTGTAGCTTAA
TTTAGGTTCCACATACACTTCAGTGGTTAAACCTGAGCTAGACTCAAATAGTTTGTTCATTAAAGAAAATGAAT
CTTTTATGTGGACCAAGGTCAGGTTAGTTAATTTGTTTGCTTTTATTGGAATAACTTTTCCCATTCCAATTCATC
ACTTAATTTTAAAGTGTTCTACTAAAATACCCATTAAAGTCCTTTACATTTCTCACAGACTAGGGCTATGACAGA
TTCATAAGACGTTTCTTTTTTCCCTCAAGGCACAAAAGGTAGCTTTTCTGGTCATCAACCTAGTCTTCCCTGTTC
TAATTTACAAACAGTGGGGCAACATTTTATATAATACCAATATGAACTCTAATTGCAAAGAGACTAAATGAAATC
TTCACACGAAGCAAGATTAAATTAATAATAAAATGTGCTTGACTGTGGTAAAACATTTCTTTTAAAAAAATAGT
ATGACTTTTTTTTTTTTTTTTTTGTCTAAATCTTTCTTTTTTGTACACCTCACCTCTTCTTCACTGATGCATTTTCC
AGCAACTGGAAGTTCACTCTGGCTAGGAAAGTAACTAAATGTGATGTTATCATTCTAATTAGTGATTACAAAAGA
TCAATTAATGTTATAATTAATAAACAGTGTCTAGATCTGTTGTTTGTAGTGAATAAATGTGACAATTACTTTGTTT
ATTGACATAGATGTGTTGAATTTCTCCCTAGATTTTAAAGGGATGCATTTTGTAGTGTGATGTGTGCATTTAACT
GTGGACAGTAGGAACAAGGCAAGCATATTAGGGGAAGAGTAGGGCCCTAATGTCTAAGCTACAGACATATTTTA
GCATGCTTGACACCTTCTTGGTATATGATGCTATATCAGCAACTTGACTCATTGGATCTGGAGCCTCTAGCT
TTAATATTTTATCACTAAATGCTTAAGTGTTTATGTTGC

[illegible]

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FIGURE 1060

MLYFSLFWAARPLQRCGQLVRMAIRAQHSNAAQTQTGEANRGWTGQESLSDSDPEMWELLQREKDRQCRGLELIA
SENFCSRAALEALGSCLNKYSSEGYPGKRYYGGAEVVDEIELLCQRRALEAFDLDPAQWGVNVQPYSGSPANLAV
YTALLQPHDRIMGLDLPDGGHLTHGYMSDVKRISATSIFFESMPYKLNPKTGLIDYNQLALTARLFRPRLIIAGT
SAYARLIDYARMREVCDEVKAHLLADMAHISGLVAAKVIPSFFKHADIVTTTTTHKTLRGARSGLIFYRKGVKAVD
PKTGREIPYTFEDRINFAVFP SLQGPHNHAI AAVAVALKQACTPMFREYSLQVLKNARAMADALLERGYSLVSG
GTDNHLVLVDLRPKGLDGARAERVLELV SITANKNTCPGDRSAITPGGLRLGAPALTSRQFREDDFRRVVD FIDE
GVNIGLEVKSKTAKLQDFKSFLDKDSETSORLANLRQVEQFARAFPM PGFDEH

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FIGURE 1061

TGCACTCACCTCCTAGAGACCAGGCTGCCATCATGCTCTTGGGAAGCTTGTGGAGAATGTCAAGTACGAAGATATCT
ATGAGGACCGGCACGATGGTGTCCCGAGCCACAGCTCGCGGCTCTCCAGCTGGGCTCGGTGTCCCAAGGACCCT
ACTCGAGCGCCCCGCGCTGTCCACACCCCGTCGTGCGACTTCCAGCCGCCCTACTTCCACCCCCCTACCAGC
CGCTCCCCTACCACCAGAGCCAGGACCCCTACTCCACGTCAACGACCCCTACTCCCTGAACCCACTGCACCAGC
CCCAGCAACATCCCTGGGGGCAACGGCAGCGGCAAGAAGTGGGTTCGGAAGCCGGCTCTCTCCTGCCCCAGCCTC
GGGCCGCCTTGCCCCAGCTCTCGGGCCTTGACCCCGGAGGGACTACCACTCGGTCCGCCGGCCGGACGTGCTGC
TGCATTCCGGCGACACGGCCTGGACGCGGGCATGGGTGACAGCCTCTCGCTGCACGGCCTCGGCCATCCCGGAA
TGGAAGACGTCCAGTCAGTTGAAGATGCCAATAACAGCGGCATGAATCTATTGGACCAGTCTGTCAATAAAAAAG
TTCCAGTTCTTCCCAAATCGGTGACTTCTCTAATGATGAATAAAGACGGCTTCCTGGGAGGCATGTCTGTCAACA
CCGGCGAGGTGTTTTGCTCCGTCCCAGGCCGTTTGTCTCTGCTCAGTTCAACTTCGAAGTACAAAGTAACTGTGG
GAGAAGTTCAGAGACGGCTGTGCCCCCTGAATGCCTCAATGCATCTCTCCTCGGCGGAGTCCTCAGAAGAGCCA
AATCGAAAAATGGGGGAGATCTTTGCGAGAAAAGGCTAGAAAAAATCGGTTTGAATTTACCCGCGGGCAGGCGCA
AAGCAGCAAATGTCAGTTACTCACCTCCCTGGTGGGAAGGAGAAGCTGTTCACTTAGCTAGGGATTTTGGGTACA
TTTGCGAAACGGAGTTTCCCGCCAAAGCCGTCTCTGAGTATTTGAACCGGCAGCACACAGACCCGAGTGACCTGC
ACTCCCGAAAGAATATGCTGTTGGCCACCAAGCAACTTTGTAAAGAATTTACGGATCTACTGGCGCAGGACCGGA
CACCGATAGGGAACAGCCGACCCAGCCCCATCCTGGAGCCGGGGATCCAGAGCTGCCTCACGCACTTCAGCCTCA
TCACGCACGGCTTCGGCGCCCCGGCCATTTGCGCCGCGCTCACGGCCCTGCAGAACTATCTCACCGAGGCGCTCA
AAGGCATGGACAAGATGTTCTTGAACAACACCACCACTAACAGGCACACGTCTGGGGAAGGCCAGGTAGTAAAA
CTGGCGACAAGGAGGAGAAACACAGGAAATTGAAAAATTTTT

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FIGURE 1062

MLWKLVENVKYEDIYEDRHDGVPSHSSRLSQLGSVSQGPYSSAPPLSHTPSSDFQPPYFPPPYQPLPYHQSQDPY
SHVNDPYSLNPLHQPPQHPWGQRQRQEVGSEAGSLLPQPRAALPQLSGLDPRRDYHSVRRPDVLLHSAHHGLDAG
MGDSLSLHGLGHPGMEDVQSVEDANNSGMNLLDQSVIKKVPVPPKSVTSLMMNKDGFLLGGMSVNTGEVFCVPGR
LSLLSSTSKYKVTVGEVQRRRLSPPECLNASLLGGVLRRAKSKNGGRSLRERLEKIGLNLPAGRRKAANVTLLTSL
VEGEAVHLARDFGYICETEFPKAVSEYLNROHTDPSDLHSRKNMMLLATKQLCKEFTDLLAQDRTPIGNSRPSP I
LEPGIQSCLTHFSLITHGFGAPAICAALTALQNYLTEALKGMDKMFLNNTTTNRHTSGEGPGSKTGDKEEKHRK

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FIGURE 1063

GGGGCATTGTTGTGCCTGCCTAGCTATCCAGACAGAGCAGCTACCCCTCAGCTCTAGCTGATACTACAGACAGTACA
ACAGATCAAGAAGTATGGCAGTGACAACCTCGTTTGACACGGTTGCACGAAAAGATCCTGCAAAATCATTGTTGGAG
GGAAGCGGCTTAGCCTTCTCTATAAGGGTAGTGCCATGGATTCCGTAATGGAGTTTTGCTTGACAGATGTTGTA
ATCAAGGGCCTACTCTAACAGTGATTTATAGTGAAGATCATATTATTGGAGCATATGCGGAAGAGAGTTACCAGG
AAGGAAAGTATGCTTCCATCATCCTTTTTGCACTTCAAGATACTAAAATTTCAGAATGGAACTAGGACTATGTA
CACCAGAAACACTGTTTTGTTGTGATGTTACAAAATATAACTCCCCAACTAATTTCCAGATAGATGGAAGAAATA
GAAAAGTGATTATGGACTTAAAGACAATGGAAAATCTTGGACTTGCTCAAAATTGTACTATCTCTATTTCAGGATT
ATGAAGTTTTTCGATGCGAAGATTCAGTGGATGAAAGAAAGATAAAAGGGGTCATTGAGCTCAGGAAGAGCTTAC
TGTCTGCCTTGAGAACTTATGAACCATATGGATCCCTGGTTCAACAAATACGAATTCTGCTGCTGGGTCCAATTG
GAGCTGGGAAGTCCAGCTTTTTCAACTCAGTGAGGTCTGTTTTCCAAGGGCATGTAACGCATCAGGCTTTGGTGG
GCACTAATACAACCTGGGATATCTGAGAAAGTATAGGACATACTCTATTAGAGACGGGAAAGATGGCAAAATACCTGC
CGTTTATTCTGTGTGACTCACTGGGGCTGAGTGAGAAAGAAGGCGGCCTGTGCAGGGATGACATATTCTATATCT
TGAACGGTAACATTTCGTGATAGATACCAGTTTAATCCCATGGAATCAATCAAATTAATCATCATGACTACATTG
ATTCCCCATCGCTGAAGGACAGAATTCATTGTGTGGCATTGTTGTTGATGCCAGCTCTATTCAATACTTCTCCT
CTCAGATGATAGTAAAGATCAAAAGAATTGGAAGGGAGTTGGTAAACGCTGGTGTGGTACATGTGGCTTTGCTCA
CTCATGTGGATAGCATGGATTTGATTACAAAAGGTGACCTTATAGAAATAGAGAGATGTGAGCCTGTGAGGTCCA
AGCTAGAGGAAGTCCAAAGAAAACCTGGATTTGCTCTTTCTGACATCTCGGTGGTTAGCAATTATTCTCTGAGT
GGGAGCTGGACCCTGTAAAGGATGTTCTAATTTCTTTCTGCTCTGAGACGAATGCTATGGGCTGCAGATGACTTCT
TAGAGGATTTGCCTTTTGAGCAAAATAGGGAATCTAAGGGAGGAAATTATCAACTGTGCACAAGGAAAAAAATAGAG
TATGTGAAAGGTTACGTAAATTTCTCACATCACAGAAGATTAAAATTCAGAAAGGAGAAAAACACAGACCAAAG
AGAAGTATCTAAGACCAAAGGGATGTGTTTTATTAATGTCTAGGATGAAGAAATGCATAGAACATTGTAGTACTT
GTAAATAACTAGAAATAACATGATTAGTCATAATTGTGAAAAATAGTAATAATTTTTCTTGGATTTATGTTCTG
TATCTGTGAAAAAATAAATTTCTTATAAACTCGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1064

MAVTTRLTRLHEKILQNHFGGKRLSLLYKGSVHGFRNGVLLDRCCNQGPTLTVIYSEDHIIIGAYAEESYQEGKYA
SIILFALQDTKISEWKLGLCTPETLFCCDVTKYNSPTNFQIDGRNRKVIMDLKTMENLGLAQNCTISIQDYEVFR
CEDSLDERKIKGVIELRKSLLSALRTYEPYGSLVQQIRILLGPIGAGKSSFFNSVRSVFQGHVTHQALVGTNTT
GISEKYRTYSIRDGKDGKYLFFILCDSLGLSEKEGGLCRDDIFYILNGNIRDYQFNPMESIKLNHHDYIDSPSL
KDRIHCVAFVFDASSIQYFSSQMIVKIKRIRRELNVAGVVHVALLTHVDSMDLITKGDLEIERCEPVRSKLEEV
QRKLGFALSDISVVSNYSEWELDPVKDVLILSALRRMLWAADDLFEDLPFEQIGNLREEIINCAQGKK

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FIGURE 1065

CAGCTACAGCACAGATCAGCACCCATGAAAGCTTCTCACGGGCCTGGTTTTCTGCTCCTTGGTCCTGAGTGTCAGCA
GCCGAAGCTTCTTTTCGTTCCCTTGGCGAGGCTTTTGATGGGGCTCGGGACATGTGGAGAGCCTACTCTGACATGA
GAGAAGCCAATTACATCGGCTCAGACAAATACTTCCATGCTCGGGGGAACATATGATGCTGCCAAAAGGGGACCTG
GGGGTGCCTGGGCCGCAGAAGTGATCAGCAATGCCAGAGAGAATATCCAGAGACTCACAGGCCATGGTGCGGAGG
ACTCGCTGGCCGATCAGGCTGCCAATAAATGGGGCAGGAGTGGCAGAGACCCCAATCACTTCCGACCTGCTGGCC
TGCCTGAGAAATACTTGAAGCTTCCTCTTCACTCTGCTCTCAGGAGACCTGGCTATGAGCCCTCGGGGCAGGGATTC
AAAGTTAGTGAGGTCTATGTCCAGAGAAGCTGAGATATGGCATATAATAGGCATCTAATAAATGCTTAAGAGGTG
G

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FIGURE 1066

MKLLTGVLVFCSLVLSVSSRSFFSFLGEAFDGARDMWRAYSDMREANYIGSDKYFHARGNYDAAKRPGGAWAAEV
ISNARENIQRLTGHGAEDSLADQAANKWGRSGRDPNHFRPAGLPEKY

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FIGURE 1067

ATGAGGCCCCAGGAGACCGTTGGTCTTCATGTCTTTGGTGTGTGCACTCTTGAACACATGGCCAGGGCACACAGGG
TGCATGACGACAAGGCCTAATATTGTCCTAATCATGGTTGATGACCTGGGTATTGGAGATCTGGGCTGCTACGGC
AATGACACCATGAGGACGCCTCACATCGACCGCCTTGCCAGGGAAGGCGTGCGACTGACTCAGCACATCTCTGCC
GCCTCCCTCTGCAGCCCCAAGCCGGTCCGCGTTCTTGACGGGAAGATAACCCATCCGATCAGGTATGGTTTCTAGT
GGTAATAGACGTGTTCATCCAAATCTTGCACTCCCCGAGGCCTCCCTCTTAATGAGACAACACTTGCAGCCTTG
CTAAGAAGCAAGGATACAGCACGGGGCTTATAGGCAAATGGCACCAAGGCTTGAAGTGCAGACTCCCGAAGTGAC
CAGTGCCACCATCCATATAATTATGGGTTTGACTACTACTATGGCATGCCGTTCACTCTCGTTGACAGCTGCTGG
CCGGACCCCTCTCGTAACACGGAATTAGCCTTTGAGAGTCAGCTCTGGCTCTGTGTGCAGCTAGTTGCCATTGCC
ATCCTCACCTAACCTTTGGGAAGCTGAGCGGCTGGGTCTCTGTTCCCTGGCTCCTGATCTTCTCCATGATTCTG
TTTATTTTCTCTTTGGGCTATGCTTGGTTCTCCAGCCACACGTCCCCTTTATACTGGGACTGCCTCCTCATGCGG
GGGCACGAGATCACGGAGCAGCCCATGAAGGCTGAACGAGCTGGATCCATTATGGTGAAGGAAGCGATTTCTTTT
TTAGAAAGGCACAGTAAGGAACTTTCTTCTCTTTTCTCTCTTTCTTACGTGCACACACCTCTCCCCACCACG
GACGATTTCACTGGCACCAGCAAGCATGGCTTGTATGGGGATAATGTGGAAGAGATGGACTCCATGGTGGGCAAG
ATTCTTGATGCTATCGATGATTTTGGCCTAAGGAACAACACCCTTGTCTACTTTACATCAGATCACGGAGGGCAT
TTGGAAGCTAGGCGAGGGCATGCCCCAATTGGTGGATGGAATGGAATATACAAAGGTGGAAAAGGCATGGGGGGC
TGGAAGGTGGAATCCGCGTCCCAGGAATTGTCCGATGGCCTGGAAGGTACCAGCTGGACGGTTGATTAAGGAA
CCTACAAGTTTAAATGGATATTTTACCAACTGTCGCATCAGTGTGAGGAGGAAGTCTCCCTCAGGACAGGGTCATT
GACGGCCGAGACCTCATGCCCTTGCTGCGAGGGCAACGTCAGGCACCTCGGAGCATGAATTTCTTTTCCACTACTGT
GGCTCCTACCTGCACGCCGTGCGGTGGATCCCCAAGGACGACAGTGGGTGAGTTTGGGAAGGCTCACTATGTGACC
CCGGTATTCCAGCCACCAGCTTCTGGTGGCTGCTATGTACCTCATTATGCAGATGTTTCCGAGAACAGGTTACC
TACCACAACCCCCCTCTGCTCTTCGATCTCTCCAGGGACCCCTCAGAGTCCACACCCCTGACACCTGCCACAGAG
CCCCTCTATGATTTTGTGATTAAAAAGGTGGCCAACGCCCTGAAGGAACACCAGGAAACCATCGTGCCCTGTGACC
TACCAACTCTCAGAACTGAATCAGGGCAGGACGTGGCTGAAGCCTTGCTGTGGGGTGTTCCTTTTGTCTGTGT
GACAAGGAAGAGGAAGTCTCTCAGCCTCGGGGTCTAACGAGAAGAGATTAA

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FIGURE 1068

MRPRRPLVFMSLVCALLNTWPGHTGCMTTRPNIVLIMVDDLIGIGDLGCGNDTMRTPHIDRLAREGVRLTQHISA
ASLCSPSRSAFLTGRYP IIRSGMVSSGNRRVIONLAVPAGLP LNETTLAALLKKQGYSTGLIGKWHQGLNCD SRSD
QCHHPYNYGFDYYYGMPFTLV DSCWPDPSRNT ELAFESQLWLCVQLVAIA ILTTLTFGKLSGWVSV PWLLIFSMIL
FIFLLGYAWFSSHTSPLYWDCLLMRGHEITEQPMKAERAGSIMVKEAISFLERHSKETFLLFFSFLHVHTPLPTT
DDFTGTSKHG LYGDNVEEMDSMVGKILDAIDDFGLRNNTLVYFTSDHGGHLEARRGHAQLGGWNGIYKGGKGMGG
WEGGIRVPGIVRWPGKVPAGRLIKEPTSLMDILPTVASVSGGSLPQDRVIDGRDLMPLLQGNVRHSEHEFLFHYC
GSYLHAVRWIPKDDSGSVWKAHYVTPVFQPPASGGCYVTS LCRCFGEQVTYHNPPLLFDLSRDPSESTPLTPATE
PLYDFVIKKVANALKEHQETIVPVTYQLSELNQGRWLKPCCGVFPFCLCDKEEEVSQPRGPNEKR

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FIGURE 1069

GTCAGTCGCGAGCGAACGACCAAGAGGGTGTTTCGACTGCTAGAGCCGAGCGAAGCGATGCCCTAAATCAAAGGAAC
TTGTTTCTTCAGGCTCTTCTGGCAGTGATTCTGACAGTGAGGTTGACAAAAAGTTAAAGAGGAAAAAGCAAGTTG
CTCCAGAAAAACCTGTAAAGAAACAAAAGACAGGTGAGACTTCGAGAGCCCTGTCATCTTCTAAACAGAGCAGCA
GCAGCAGAGATGATAACATGTTTCAGATTGGGAAAATGAGGTACGTTAGTGTTTCGCGATTTTAAAGGCAAAGTGC
TAATTGATATTAGAGAATATTGGATGGATCCTGAAGGTGAAATGAAACCAGGAAGAAAAGGTATTTCTTTAAATC
CAGAACAATGGAGCCAGCTGAAGGAACAGATTTCTGACATTGATGATGCAGTAAGAAAAGTGTAAAATTCGAGCC
ATATAAATAAAACCTGTACTGTTCTAGTTGTTTTAATCTGTCTTTTTTACATTAGCTTTTGTCTTAAATGTTCT
CCAAGCTATTGTATGTTTGGATTGCAGAAGAATTTGTAAGATGAATACTTTTTTTTTAATGTGCATTATTAAAAAT
ATTGAGTGAAGCTAATTGTCAACTTTATTAAGGATTACTTTGTCTGCCCACCACCTAGTGTAATAATAAATCAAG
TAATACAATCTTAAGTGTGTTGGCCTTTTTTGATCATAAGAGTTGGTACTGTTTAAGGCCAAAAGTAACAGTTTT
TATAGATCTTTTAGTTTTCAACTCAGCTTTTACAATAAAAAAGGATTGTATTGCATTGAGTTTATAAACTTTTGGT
TTGTGAACCTTCATATTTGATCTTTTCTCTTCCAATCAAATGTCTAGGCTTGTTTGACTTCCACCCCCAATGGTTT
TTCACCTCTTTTTATTTACTTCATTTTCTTTAATAACTTAATCTCTTCATGTTTCAGTTTTTACTTCACTCTTTAT
TCTTTTCTTTGATTATGGTATGCTTATTTGGAAAAGTCAGTGAAACTGTCAAATGTTATCTCAATAAGATACTTA
TATGAGAACTACAATCACCGAATCTACTGTATTCAATATTAGCAGATCTAATTTGATAAACAACATGGCTTGTGT
GAAAACTGAGCAGGTGTTTGTGTACCCATAGTGTTCTGTGTAGTTATTGCTTAGTCTGCAGAAAATAATGACTTA
GATGAGATGTCTGACTTGCTTTCAGTTATTAAACATGTTTACCATGGGATGATGTCTGTAACATCAGATATTGTT
CAACTAGACTAGGATTTAATAAAAAATTGTGAAAGCTTAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1070

MPKSKELVSSGSSGSDSDSEVDKKLKRKKQVAPEKPVKKQKTGETSRALSSSKQSSSSRDDNMFQIGKMRYVSVR
DFKGVLDIREYWMDPEGEMKPGRKGISLNPEQWSQLKEQISDIDDAVRKL

FIGURE 1071

CCGGATCAAAATTGATTTGACAGTCGGGTATAACTGATCCTGAGAAGATGCGCGTCCGGTGGTGGTGGCTGTAGCGCT
TCGGAGAGACTGCCTCCGCCCTTCCCCGGCCTGGAGCCGGAGTCCGAGGGGGCGGCCGGGGGATCAGAAACCCGAG
GCTGGGGACAGCGACACCGAGGGGGAGGACATTTTACCGGCGCCGCGGTGGTCACTAAAACATCAGTCTCCAAAG
ATAACTACATCCCTTCTTCCCATCAACAATGGCTCCAAAAGAAAATGGGATCCATGAAGAACAAGACCAAGAGCCA
CAGGATCTCTTTGCAGATGCCACAGTGGAGCTATCCTTGGACAGCACACAAAATAATCAGAAGAAGGTGCTAGCC
AAAACACTCATTTTCTTCTCCTCAGGAAGCCACAAAATTCTTTCGAAGCCCCAGCCAACTTATGAGGAGCTAGAG
GAAGAAGAACAGGAGGATCAATTTGATTGACAGTCGGGTATAACTGATCCTGAGAAGATAGGGGATGGTATGAAT
GCATATGTAGCCTACAAAGTTACAACACAGACAAGCTTACCATTGTTTCAGAAGCAAACAGTTTGCAGTAAAAAGA
AGATTTAGTGACTTTCTGGGTCTTTATGAGAAGCTTTCCGAGAAGCACTCTCAGAATGGCTTCATTGTCCCTCCG
CCCCCGGAGAAGAGCCTCATAGGGATGACAAAAGTGAAAGTTGGGAAGGAAGATTCTTCTTCTGCAGAAATTTCTT
GAAAAACGGAGGGCCGCTTTAGAAAAGGTACCTTCAGAGGATTGTAAATCATCCTACCATTGTACAGGACCCTGAC
GTCAGAGAGTTCTTGGAAAAAGAAGAGCTGCCACGTGCCGTGGGTACCCAGACATTGAGTGGTGTCTGGTCTCCTC
AAGATGTTCAACAAAGCCACAGATGCCGTGAGCAAAATGACCATCAAGATGAATGAATCAGACATTTGGTTTGAG
GAGAAGCTCCAGGAGGTAGAGTGTGAGGAGCAGCGCTTACGGAAACTGCATGCTGTTGTAGAACTCTAGTCAAC
CATAGGAAAGAGCTAGCGCTGAACACAGCCAGTTTGCAAAGAGTCTAGCCATGCTTGGGAGCTCTGAGGACAAC
ACGGCATTGTACGGGCACTCTCCAGCTGGCTGAGGTGGAAGAAAAAAATTGAGCAGCTCCACCAGGAACAGGGC
AACAATGACTTCTTCTCCTTGGTGTGAGTCTTGTGAGTACTACATTTCGCTTCTTGGCCATAGTCCGCGCTGCCTTC
GACCAGCGCATGAAGACATGGCAGCGCTGGCAGGATGCCCAAGCCACACTGCAGAAGAAGCGGGAGGCCGAGGCT
CGGCTGCTGTGGGCCAACAAGCCTGATAAGCTGCAGCAGGCCAAGGACGAGATCCTCGAGTGGGAGTCTCGGGTG
ACTCAATATGAAAGGGACTTCGAGAGGATTTCAACAGTGGTCCGAAAAGAAGTGATACGGTTTGAGAAAGAGAAA
TCCAAGGACTTCAAGAACCACGTGATCAAGTACCTTGAGACACTCCTTTACTCACAGCAGCAGCTGGCAAAGTAC
TGGGAAGCCTTCTTCTGAGGCAAAAGGCCATCTCCTAATGGACCAAGGACCCAGAGCCCACCTGTGTGACGCT
GCCTTTTTTATACACTGTCTCTCTCCACCTTGATGGACCCCTAGTGATGCATCCTGCCTAGGCTGGACTTAACCCC
TTCTCTCCXTGTCCCCACGACCAACTGTCCCCAGTTACTCTAACCGTTATTTTCAATTTAGCTXCCATATATATTTTC
TTACCTAAGAGAATAGTTTCTGCTTTAAGXAAAAGACCTACAATAGGTGGTGGAAATTATGGGATGGGGTGGAGT
ATTGATATAAATATATAAATACAAATGTATATTTTTCAGGATGTGGTTTAGGAAGTGGGAATAACGTTTTTCATGG
CACCATCAGGAGTAACAGAAAACC

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FIGURE 1072

MASGGGGCSASERLPPFPGLPESEGAAGGSEPEAGDSDEGEDIFTGAADVSKHQSPKITTSLPINNGSKEN
GIHEEQDQEPQDLFADATVELSLDSTQNNQKKVLAKTLIXLPPQEATNSSKPQPTYEELEEEEQEDQFDLTVGIT
DPEKIGDGMNAYVAYKVTQTSLPLFRSKQFAVKRRFSDFLGLYEKLSEKHSQNGFIVPPPPEKSLIGMTKVKVG
KEDSSSAEFLEKRRALERYLQRIVNHPTMLQDPDVREFLEKEELPRAVGTQTLTGAGLLKMFNKATDAVSKMTI
KMNESDIWFEEKLQVEVECEEQRLRKLHAVVETLVNHRKELALNTAQFAKSLAMLGSSSEDNTALSRALSQLAEEVEE
KIEQLHQEQANNDFFLLAELLSDYIRLLAIVRAAFDQRMKTWQRWQDAQATLQKKREAEARLLWANKPDKLQQAQ
DEILEWESRVTQYERDFERISTVVRKEVIRFEKEKSKDFKNHVIKYLETLLYSQQQLAKYWEAFLPEAKAIS

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FIGURE 1073

CTCTCATCACTTCTGAGCACGGAGCAATGGCCTCTCGCTGGGCTGTGCAGCTGCTGCTCGTGGCAGCCTGGAGCA
TGGGCTGTGGTGAGGCCCTCAAGTGCTACACCTGCAAGGAGCCCATGACCAGTGCTTCCTGCAGGACCATTACCC
GCTGCAAGCCAGAGGACACAGCCTGCATGACCACGCTGGTGACGGTGGAGGCAGAGTACCCCTTCAACCAGAGCC
CCGTGGTGACCCGCTCCTGCTCCAGCTCCTGTGTGGCCACCGACCCCGACAGCATCGGGGCGGCCACCTGATCT
TCTGCTGCTTCCGAGACCTCTGCAACTCGGAACTCTGAACCAGGGCGGCAGGGCGGAAGGTGCTCCTCAGGCAC
CTCCTCTCTGACGGGGCCTGGCTCCACCTGTGATCACCTCCCCCTGCTTCCTGCTGCTGTGGCACAGCTCACTCA
TGGGGTCTGAGGGGAGAGAAGCACACCAGGGGCGCCCTCTGCCTTCCATACCCACGCTTATAAAACATAACTAA
GCCAAGAGTGGA

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FIGURE 1074

MASRWAVQLLLVAAWSMGCGEALKCYTCKEPMTSASCRTITRCKPEDTACMTTLVTVEAEYPFNQSPVVTRSCSS
SCVATDPDSIGAAHLIFCCFRDLCNSEL

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FIGURE 1075

ATGAATTCTCAGCAGCAGAAGCAGCCTTGCACCCCACCCCCTCAGCCTCAGCAGCAGCAGGTGAAACAACCTTGC
CAGCCTCCACCCCAGGAACCATGCATCCCCAAAACCAAGGAGCCCTGCCAACC CAAGGTGCCTGAGCCCTGCCAC
CCCAAAGTGCCTGAGCCCTGCCAGCCCAAGATTCCAGAGCCCTGCCAGCCCAAGGTGCCTGAGCCCTGCCCTTCA
ACGGTCACTCCAGCACCAGCCCAGCAGAAGACCAAGCAGAAGTAA

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FIGURE 1076

MNSQQQKQPCTPPPPQPPQQVVKQPCQPPPPQEPICIPKTKKEPCQPKVPEPCHPKVPEPCQPKIPEPCQPKVPEPCPS
TVTPAPAAQQKTKQK

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FIGURE 1077

GGCACGAGGCTCCTCCAGCCTCTCACACTCTCCTCAGCTCTCTCATCTCCTGGAACC**ATG**GCCAGCACATCCACC
ACCATCAGGAGCCACAGCAGCAGCCGCCGGGGTTTCAGTGCCAACTCAGCCAGGCTCCCTGGGGTCAGCCGCTCT
GGCTTCAGCAGCGTCTCCGTGTCCCGCTCCAGGGGCAGTGGTGGCCTGGGTGGTGCATGTGGAGGAGCTGGCTTT
GGCAGCCGCAGTCTGTATGGCCTGGGGGGCTCCAAGAGGATCTCCATTGGAGGGGGCAGCTGTGCCATCAGTGGC
GGCTATGGCAGCAGAGCCGGAGGCAGCTATGGCTTTGGTGGCGCCGGGAGTGGATTGGTTTTGGTGGTGGAGCC
GGCATTGGCTTTGGTCTGGGTGGTGGAGCCGGCCTTGCTGGTGGCTTTGGGGGCCCTGGCTTCCCTGTGTGCCCC
CCTGGAGGCATCCAAGAGGTACCGTCAACCAGAGTCTCCTGACTCCCCTCAACCTGCAAATCGATCCCACCATC
CAGCGGGTGCAGGGCTGAGGAGCGTGAACAGATCAAGACCCTCAACAACAAGTTTGCCTCCTTCATCGACAAGGTG
CGGTTCTGGAGCAGCAGAACAAGGTTCTGGAAACAAAGTGGACCCTGCTGCAGGAGCAGGGCACCAAGACTGTG
AGGCAGAACCTGGAGCCGTTGTTTCGAGCAGTACATCAACAACCTCAGGAGGCAGCTGGACAGCATTGTCTGGGGAA
CGGGGCCGCTGGACTCAGAGCTCAGAGGCATGCAGGACCTGGTGGAGGACTTCAAGAACAAATATGAGGATGAA
ATCAACAAGCGCACAGCAGCAGAGAATGAATTTGTGACTCTGAAGAAGGATGTGGATGCTGCCTACATGAACAAG
GTTGAAGTGAAGCCAAGGCAGACACTCTCACAGACGAGATCAACTTCTGAGAGCCTTGTATGATGCAGAGCTG
TCCCAGATGCAGACCCACATCTCAGACACATCTGTGGTGTCTCCATGGACAACAACCGCAACCTGGACCTGGAC
AGCATCATCGCTGAGGTCAAGGCCAATATGAGGAGATTGCTCAGAGAAGCCGGGCTGAGGCTGAGTCTGGTAC
CAGACCAAGTACGAGGAGCTGCAGGTCACAGCAGGCAGACATGGGGACGACCTGCGCAACACCAAGCAGGAGATT
GCTGAGATCAACCGCATGATCCAGAGGCTGAGATCTGAGATCGACCACGTCAAGAAGCAGTGCGCCAACCTGCAG
GCCGCCATTGCTGATGCTGAGCAGCGTGGGGAGATGGCCCTCAAGGATGCCAAGAACAAGCTGGAAGGGCTGGAG
GATGCCCTGCAGAAGGCCAAGCAGGACCTGGCCCGGCTGCTGAAGGAGTACCAGGAGCTGATGAATGTCAAGCTG
GCCCTGGACGTGGAGATCGCCACCTACCGCAAGCTGCTGGAGGGTGAAGGAGTGCAGGCTGAATGGCGAAGGCGTT
GGACAAGTCAACATCTCTGTGGTGCAGTCCACCGTCTCCAGTGGCTATGGCGGTGCCAGTGGTGTGCGCAGTGGC
TTAGGCCTGGGTGGAGGAAGCAGCTACTCCTATGGCAGTGGTCTTGGCGTTGGAGGTGGCTTCAGTTCCAGCAGT
GGCAGAGCCATTGGGGGTGGCCTCAGCTCTGTTGGAGGCGGCAGTTCCACCATCAAGTACACCACCACCTCCTCC
TCCAGCAGGAAGAGCTATAAGCACT**TAA**AGTGCCTCTGCTAGCTCTCGGTCCCACAGTCTCAGGCCCCCTCTCTGG
CTGCAGAGCCCTCTCCTCAGGTTGCCTTTCCCTCTCCTGGCCTCCAGTCTCCCCTGCTGTCCCAGGTAGAGCTGGG
TATGGATGCTTAGTGCCCTCACTTCTTCTCTCTCTATACCATCTGAGCACCCATTGCTCACCATCAGATCA
ACCTCTGATTTTACATCATGATGTAATCACCACTGGAGCTTCACTGTTACTAAATTATTAATTTCTTGCCCTCCAG
TGTTCTATCTCTGAGGCTGAGCATTATAAGAAAATGACCTCTGCTCCTTTTCATTGCAGAAAATTGCCAGGGGCT
TATTTTCAGAACAACTTCCACTTACTTTCCACTGGCTCTCAAACCTCTCTAACTTATAAGTGTGTGAACCCCCACC
CAGGCAGTATCCATGAAAGCACAAAGTGACTAGTCCTATGATGTACAAAGCCTGTATCTCTGTGATGATTTCTGTG
CTCTTCGCTGTTTGCAATTGCTAAATAAAGCAGATTTATAATACAAAAAAAAAAAAAAAAAAAA

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FIGURE 1078

MASTSTTIRSHSSSRRGFSANSARLPGVSRSGFSSVSVSRSRGSGGLGGACGGAGFGSRSLYGLGGSKRISIGGG
SCAISGGYGSRAAGGSYGFGGAGSGFGFGGGAGIGFGLGGGAGLAGGFGGPGFPVCPGPGGIQEVTVNQSLTPLNL
QIDPTIQRVRAEEREQIKTLNNKFASFIDKVRFLEQQNKVLETKWTLLEQGTCTVRQNLPLFEQYINNLRRL
DSIVGERGRLDSELRGMQDLVEDFKNKYEDEINKRTAAENEFVTLKKDVEDAAYMNKVELQAKADTITDEINFLRA
LYDAELSQMQTHISDTSVLSMDNNRNLDLDSIIAEVKAQYEEIAQRSRAEAESWYQTKYEELQVTAGRHGDDL
NTKQEI AEINRMIQRLRSEIDHVKKQCANLQAAIADAEQORGEMALKDAKNKLEGLDALQAKQDLARLLKEYQE
LMNVKLALDVEIATYRKLEGECECLNGEGVGQVNISVVQSTVSSGYGGASGVGSGGLGGLGGSSSYSGSLGVGG
GFSSSSGRAIGGGLSSVGGGSSTIKYTTTSSSSRKSYKH

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FIGURE 1079

CGGACGCGTGGCGCGGTTTCAAGCATCGGGAGCCTCTCCGAGCAGCAGCACCGCCCTCGCCTCCTGCAGCCGCATCG
CCGCGCCGAGCCACAGCCACGATGATCGCGGGCTCCCTTCTCCTGCTTGGATTCCCTTAGCACCACCACAGCTCAGC
CAGAACAGAAAGGCCCTCGAATCTCAATTGGCACATACCGCCATGTTGACCGTGCCACCGGCCAGGTGCTAACCTGTG
ACAAGTGTCCAGCAGGAACCTATGTCTCTGAGCATTGTACCAACACAAGCCTGCGCGTCTGCAGCAGTTGCCCTG
TGGGGACCTTTACCAGGCATGAGAATGGCATAGAGAAATGCCATGACTGTAGTCAGCCATGCCCATGGCCAAATGA
TTGAGAAATTACCTTGTGCTGCCTTGACTGACCGAGAATGCACTTGCCACCTGGCATGTTCCAGTCTAACGCTA
CCTGTGCCCCCATAACGGTGTGTCTGTGGGTGGGGTGTGCGGAAGAAAGGGACAGAGACTGAGGATGTGCGGT
GTAAGCAGTGTGCTCGGGGTACCTTCTCAGATGTGCCTTCTAGTGTGATGAAATGCAAAGCATACACAGACTGTG
TGAGTCAGAACCTGGTGGTGATCAAGCCGGGGACCAAGGAGACAGACAACGCTCTGTGGCACACTCCCGTCTCTCT
CCAGCTCCACCTCACCTTCCCCTGGCACAGCCATCTTTCCACGCCCTGAGCACATGGAACCCATGAAGTCCCTT
CCTCCACTTATGTTCCCAAAGGCATGAACTCAACAGAATCCAACCTCTTCTGCCTCTGTTAGACCAAAGGTACTGA
GTAGCATCCAGGAAGGGACAGTCCCTGACAACACAAGCTCAGCAAGGGGGAAGGAAGACGTGAACAAGACCCTCC
CAAACCTTCAGGTAGTCAACCACCAGCAAGGCCCCCCACCACAGACACATCCTGAAGCTGCTGCCGTCCATGGAGG
CCACTGGGGGCGAGAAGTCCAGCACGCCCCATCAAGGGCCCCAAGAGGGGACATCCTAGACAGAACCTACACAAGC
ATTTTGACATCAATGAGCATTTGCCCTGGATGATTGTGCTTTTCTCCTGCTGCTGGTGCTTGTGGTGATTGTGGTGT
GCAGTATCCGGAAGGCTCGAGGACTCTGAAAAAGGGGGCCCCGGCAGGATCCCAGTGCCATTGTGGAAAAGGCAG
GGCTGAAGAAATCCATGACTCCAACCCAGAACCAGGGAGAAATGGATCTACTACTGCAATGGCCATGGTATCGATA
TCCTGAAGCTTGTAGCAGCCCCAAGTGGGAAGCCAGTGGAAGATATCTATCAGTTTCTTTGCAATGCCAGTGAGA
GGGAGGTTGCTGCTTTTCTCCAATGGGTACACAGCCGACCACGAGCGGGCCTACGCAGCTCTGCAGCACTGGACCA
TCCGGGGCCCCGAGGCCAGCCTCGCCCAGCTAATTAGCGCCCTGCGCCAGCACCGGAGAAACGATGTTGTGGAGA
AGATTCTGTGGGCTGATGGAAGACACCACCCAGCTGGAAACTGACAAACTAGCTCTCCCGATGAGCCCCAGCCCGC
TTAGCCCCGAGCCCCATCCCCAGCCCCAACGCGAAACTTGAGAATTCGCGTCTCCTGACGGTGGAGCCTTCCCCAC
AGGACAAGAACAAGGGCTTCTTCGTGGATGAGTCGGAGCCCCCTTCTCCGCTGTGACTCTACATCCAGCGGCTCCT
CCGCGCTGAGCAGGAACGGTTCCCTTTATTACCAAAGAAAAGAAGGACACAGTGTGCGGCAGGTACGCCCTGGACC
CCTGTGACTTGCAGCCTATCTTTGATGACATGCTCCACTTTCTAAATCCTGAGGAGCTGCGGGTGATTGAAGAGA
TTCCCCAGGCTGAGGACAACTAGACCGGCTATTTCGAAATTATTGGAGTCAAGAGCCAGGAAGCCAGCCAGACCC
TCCTGGACTCTGTTTATAGCCATCTTCCTGACCTGCTGTAGAACATAGGGATACTGCATTCTGGAAATTACTCAA
TTTAGTGGCAGGGTGGTTTTTTAAATTTCTTCTGTTTCTGATTTTTGTGTTGTTGGGGTGTGTGTGTGTGTTGTG
TGTGTGTGTGTGTGTGTGTGTGTGTGTTTAAACAGAGAATATGGCCAGTGCTTGAGTTCTTTCTCCTTCTCTCT
CTCTCTTTTTTTTTTAAATAACTCTTCTGGGAAGTTGGTTTTATAAGCCTTTGCCAGGTGTAAGTTGTGAAATA
CCCACCACTAAAGTTTTTTAAGTCCATATTTTCTCCATTTTGCCTTCTTATGTATTTTCAAGATTATCTGTGC
ACTTTAAATTTACTTAACTTACCATAAATGCAGTGTGACTTTTCCACACACTGGATTGTGAGGCTCTTAACTTC
TTAAAAGTATAATGGCATCTTGTGAATCCTATAAGCAGTCTTTATGTCTCTTAAACATTACACCTACTTTTTAA
AACAAATATTATTACTATTTTTATTATTGTTTGTCTTTTATAAATTTTCTTAAAGATTAAGAAAATTTAAGACCC
CATTGAGTTACTGTAATGCAATTCAACTTTGAGTTATCTTTAAATATGTCTTGTAAGTTTCAATTCATGCGCTG
AACTTGACCACACTATTGCTGATTGTATGGTTTTACCTGGACACCGTGTAGAATGCTTGATTACTTGTAAGTCT
TCTTATGCTAATATGCTCTGGGCTGGAGAAATGAAATCCTCAAGCCATCAGGATTTGCTATTTAAGTGGCTTGAC
AACTGGGGCCACCAAAGAACTTGAACCTTACCTTTTAGGATTTGAGCTGTTCTGGAACACATTGCTGCACTTTGG
AAGTCAAAATCAAGTGCCAGTGGCGCCCTTTCCATAGAGAATTTGCCAGCTTTGCTTTAAAGATGTCTTGTTT
TTTATATACACATAATCAATAGGTCCAATCTGCTCTCAAGGCCCTGGTCTGGTGGGATTCCCTTACCAATTACT
TTAATTAAAAATGGCTGCAACTGTAAGAACCCTTGTCTGATATATTGCAACTATGCTCCCATTTACAAATGTAC
CTTCTAATGCTCAGTTGCCAGGTTCCAATGCAAAGGTGGCGTGGACTCCCTTTGTGTGGGTGGGGTTTGTGGGTA
GTGGTGAAGGACCGATATCAGAAAAATGCCTTCAAGTGTACTAATTTATTAATAAACATTAGGTGTTTGTAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1080

MGTSFSSSTALASCSRIARRATATMIAGSLLLLGFLSTTTAQPEQKASNLIGTYRHVD RATGQVLTCDKCPAGTY
VSEHCTNTSLRVCSSCPVGTFTRHENGIEKCHDCSQPCPWPMIEKLPCAALTDRECTCPPGMFQSNATCAPHTVC
PVGWGVRRKKGTETEDVRCKQCARGTFSDVPSSVMKCKAYTDCLSQNLVVIKPGTKETDNVCGTLP SFSSSTSPSP
GTAIFPRPEHMETHEVPSSTYVPKGMNSTESNSSASVRPKVLSSIQEGTVPDNTSSARGKEDVNKTLPNLQV VNH
QQGPHHRHILKLLPSMEATGGEKSSTPIKGPKRGHPRQNLHKKHFDINEHLPWMIVLFLLLVLVVI VVC S IRKSSR
TLKKGPRQDPSAIVEKAGLKKSMPTQNREKWIYYCNGHGIDILKLVA AQVGSQWKDIYQFLCNASEREVA AFSN
GYTADHERAYAALQHW TIRGPEASLAQLISALRQHRRNDVVEKIRGLMEDTTQLETDKLALPMSP SPLSPSP IPS
PNAKLENSALLTVEPSPQDKNKGFFVDESEPLLRC DSTSSGSSALS RNGSFITKEKKD TVLRQVRLDPCDLQPIF
DDMLHFLNPEELRVIEEIPQAEDKLDR LFEIIGVKSQEASQTLLDSVYSHLPDLL

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FIGURE 1081A

ATTTTCCTGCCTCAGCCTCCCGAGCAGCTTGGACTACAGGTAGTTCCAATTTGCCAGCAGAAATGAGTACAGAAAG
AGACTCAGAAACGACATTTGACGAGGATTCTCAGCCTAATGACGAAGTGGTTCCCTACAGTGATGATGAAACAGA
AGATGAACTTGATGACCAGGGGTCTGCTGTTGAACCAGAACAAAACCGAGTCAACAGGGAAGCAGAGGAGAACC
GGAGCCATTGAGAAAAGAAATGTACATGGCAAGTCAAAGCAAACGATCGCAAGTACCACGAACAACCTCACTTTAT
GAAACACAAAATTCTTGTGTATTAAGGAGAGTAAATATGCGAATAATGCAATTAACATACAGTACAACGCATT
TACCTTTATACCAATGAATCTGTTTGAGCAGTTTAAAGAGAGCAGCCAATTTATATTTCTGGCTCTTCTTATCTT
ACAGGCAGTTCTCAAATCTCTACCCTGGCTTGGTACACCACACTAGTGCCCTGCTTGTGGTGCTGGGCGTCAC
TGCAATCAAAGACCTGGTGGACGATGTGGCTCGCCATAAAATGGATAAGGAAATCAACAATAGGACGTGTGAAGT
CATTAAAGGATGGCAGGTTCAAAGTTGCTAAGTGGAAAGAAATTCAGTTGGAGACGTCATTTCGTCTGAAAAAAA
TGATTTTGTTCAGCTGACATTCTCCTGCTGTCTAGCTCTGAGCCTAACAGCCTCTGCTATGTGGAAACAGCAGA
ACTGGACGGAGAAACCAATTTAAATTTAAGATGTCATTGAAATCACAGACCACTACCTCCAAAGAGAAGATAC
ATTGGCTACATTTGATGGTTTTTATTGAATGTGAAGAACCCAATAACCGACTAGATAAGTTTACAGGAACACTATT
TTGGAGAAACACAAGTTTTCTTTGGATGCTGATAAAATTTGTTACGTGGCTGTGTAATTAGGAACACCGATTT
CTGCCACGGCTTAGTCATTTTTGCAGGTGCTGACACTAAAATAATGAAGAATAGTGGGAAAACAGATTTAAAG
AACTAAAATTGATTACTTGATGAACACTACATGTTTTACACGATCTTTGTTGTTCTTATTCTGCTTTCTGCTGGTCT
TGCCATCGGCCATGCTTATTGGGAAGCACAGGTGGGCAATTCCTCTTGGTACCTCTATGATGGAGAAGACGATAC
ACCCTCCTACCGTGGATTCTCATTTTTCTGGGGCTATATCATTGTTCTCAACACCATGGTACCCATCTCTCTCTA
TGTACGCTGGAAGTGATTCTGCTTTGGACAGAGTCACTTCATCAACTGGGACCTGCAAATGTACTATGCTGAGAA
GGACACACCCGCAAAAGCTAGAACCACCACTCAATGAACAGCTCGGGCAGATCCATTATATCTTCTCTGATAA
GACGGGGACACTCACACAAAATATCATGACCTTTAAAAAGTGCTGTATCAACGGGCAGATATATGGGGACCATCG
GGATGCCCTCTCAACACAACCACAACAAAATAGAGCAAGTTGATTTTAGCTGGAATACATATGCTGATGGGAAGCT
TGCATTTTATGACCACTATCTTATTGAGCAAAATCCAGTCAGGGAAAGAGCCAGAAGTACGACAGTTCTTCTTCTT
GCTCGCAGTTTGCCACACAGTCATGGTGGATAGGACTGATGGTCAGCTCAACTACCAGGCAGCCTCTCCCGATGA
AGGTGCCCTGGTAAACGCTGCCAGGAACCTTTGGCTTTGCCTTCCTCGCCAGGACCCAGAACACCATCACCATCAG
TGAAGTGGGCACTGAAAGGACTTACAATGTTCTTGCCATTTTGGACTTCAACAGTGACCGGAAGCGAATGTCTAT
CATTGTAAGAACCCCAAGGCAATATCAAGCTTTACTGTAAAGGTGCTGACACTGTTATTTATGAACGGTTACA
TCGAATGAATCCTACTAAGCAAGAAACACAGGATGCCCTGGATATCTTTGCAAATGAAACTCTTAGAACCCATATG
CCTTTGCTACAAGGAAATTGAAGAAAAAGAAATTTACAGAATGGAATAAAAAGTTTATGGCTGCCAGTGTGGCCTC
CACCAACCGGGACGAAGCTCTGGATAAAGTATATGAGGAGATTGAAAAAGACTTAATTCTCCTGGGAGCTACAGC
TATTGAAGACAAGCTACAGGATGGAGTTCCAGAAACCAATTTCAAACTTGCAAAAGCTGACATTAAGATCTGGGT
GCTTACTGGAGACAAAAGGAAACTGCTGAAAAATATAGGATTTGCTTGTGAACCTCTGACTGAAGACACCACCAT
CTGCTATGGGGAGGATATTAATTCTCTTCTTTCATGCAAGGATGGAAAACCAAGAGGAATAGAGGTGGCGTCTACGC
AAAGTTTGCACCTCCTGTGCAGGAATCTTTTTTCCACCCGGTGGAAACCGTGCCTTAATCATCACTGGTTCTTG
GTTGAATGAAATCTTCTCGAGAAAAAGACCAAGAGAAATAAGATTCTGAAGCTGAAGTTCCCAAGAACAGAAGA
AGAAAGACGGATGCGGACCCAAAGTAAAGAGGAGCTAGAAGCTAAGAAAGAGCAGCGGCAGAAAAACTTTGTGGA
CCTGGCCTGCGAGTGCAGCGCAGTCATCTGCTGCCGCTCACCCCAAGCAGAAGGCCATGGTGGTGGACCTGGT
GAAGAGGTACAAGAAAGCCATCACGCTGGCCATCGGAGATGGGGCCAATGACGTGAACATGATCAAAACTGCCCCA
CATTGGCGTTGGAATAAGTGGACAAGAAGGAATGCAAGCTGTCATGTCGAGTGACTATTCCTTTGCTCAGTTCCG
ATATCTGCAGAGGCTACTGCTGGTGCATGGCCGATGGTCTTACATAAGGATGTGCAAGTTCTTACGATACTTCTT
TTACAAAACCTTTGCCTTTACTTTGGTTCATTTCTGGTACTCCTTCTTCAATGGCTACTCTGCGCAGACTGCATA
CGAGGATTGGTTTCATCACCTCTACAACGTGCTGTACACCAGCCTGCCCCTGCTCCTCATGGGGCTGCTCGACCA
GGATGTGAGTGACAACTGAGCCTCCGATTCCCTGGGTATACATAGTGGGACAAAGAGACTTACTATTCAACTA
TAAGAGATTCTTTGTAAGCTTGTGTCATGGGGTCTTAACATCGATGATCCTCTTCTTACATCCTCTTGAGCTTA
TCTGCAAACCGTAGGGCAGGATGGAGAGGCACCTCCGACTACCAGTCTTTTGCCGTCACCATTTGCTCTGCTCT
TGTAATAACAGTCAATTTCCAGATTGGCTTGGATACTTCTTATTGGACTTTTGTGAATGCTTTTTCAATTTTGG
AAGCATTGCACTTTATTTTGGCATCATGTTTGACTTTTCATAGTGTGGAATACATGTTCTCTTCCATCTGCATT
TCAATTTACAGGCACAGCTTCAAACGCTCTGAGACAGCCATACATTTGGTTAACTATCATCTGACTGTTGCTGT
GTGCTTACTACCCGTCGTTGCCATTTCGATTCCTGTCAATGACCATCTGGCCATCAGAAAGTGATAAGATCCAGAA

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FIGURE 1081B

GCATCGCAAGCGGTTGAAGGCGGAGGAGCAGTGGCAGCGACGGCAGCAGGTGTTCCGCCGGGGCGTGTCAACGCG
GCGCTCGGCCTACGCCTTCTCGCACCAGCGGGGCTACGCGGACCTCATCTCCTCCGGGCGCAGCATCCGCAAGAA
GCGCTCGCCGCTTGATGCCATCGTGGCGGATGGCACCGCGGAGTACAGGCGCACCGGGGACAGCTGATCCCTTAC
CCCCAGGCTGGGATGCGGCCACAAAGCACGTCTATTTTTTTATGAAAGACTCTCAGGACTTTCTGTGTGTGTGTG
AATTGCATTTCATCACAAGATATTGAAGACAATAAATAATCTTTATAACAACTCCTTGGGTTGGACTATTAAAC
AATAGCAGAGCCAAGAAATAGGACTTTTAAAAGTCCTATTATTTCGGCCGGGCGTGGTGGCTCAGGTCTGTAATCC
CAGCACTTTAGGAGGCTGAGGAGGGGAGATCACCTGAGGCCAGGAGTTTCGAGACCAGCCCAGCCAACATGGTGAA
ACCTGTCTCTACCATAAAATTAAAAATTAGCCGGGCTTGGTGGTGGGCACCCGTAATCCCACCTATTTGAGAAGC
TGAAGCAGAAGAATCGCTTGAACCTGGGAGATGGAGGTTACAGTGAGCCGAGATTGCGCCACTGCACTCCAGCCT
GGGTGACAGAGCAAGACTCTGTCTTAAGAAAAATTTAAAAATAGGCCGGGCATGGTGGCTCATGCCTGTCATCCT
AGCACTTTGGGAGGCCAAGGCAGGTGGATCACTTGAGGTCAGGAGACCAGCCCGGCCAACATGGTGAAACCCCAT
CTCTACTAAAAATACAAAAATTAGCTGGAAATCGCTTGAAACCTGGGAGGTGGAGGTTCCAGTGGAGCCGAGATC
GTGGCACTGCACTCCCAACCTGAGCAACAGAGTGAGACACCAGCTCMAAAAAAATTTTTTAATAATAATAAAAA
GTCCTATTATTCAACTGGTTATGTACATTATGGTTGAAAGGGAACGTTTAAATCCCAGTCTCAATCCAGGGCAAT
AGAATTACAAAGCATGTTGTATTTTCAGTTCAAATGGTATTGTATTATAAAATTACAGTTACATTTTCTTTTCGGT
GATCTTCAGCATAATTTCCAGAGGCCCCCTTTTCTCCTATAGGCCATCTTATTAACAGATTTTAAATTTAT
AGTAATGACAAATGACTTATCAGTGTTTCATCATCTGAAAGCTAAGTGGTTCGTTCAATCACTTTTTCAAAGTTGA
TAGTAGATTGCATGGTTTCATGTTTCCTCATATTGGTTTATTAATTCATTTAATCAAGGAAATAACTTCAGAT
TCCATAAAGTTTCAGTTTATTTTTAGTTTACTACTAGGTGAGATAGCACATTACATACTTTTACTATCAAATATT
ATTTTAGCAGCTTCCCATAGTACCAAATGATTGATTCCCTACTCTCATTTTTTAAAGCATATAAATATTTATGG
GCTTAAAAAGGGGGTTTTTAAAAACTGAGGATATCAGTAATAAATTGCAGAATATTTTGCAARGCTTTCTTTTTC
GAAAGCCAACTTTTGTGCTGCCTATATGCAAAGTATTTATCAGGGACTTGAMCAARGACCTCAYTCTTTTTC
ACTTTGTCTTATGTCGAGAGAAAAGGTTATTGGCAGCCACATTCCARGACTTGGGGAATGGTGTGTCCTTTTAA
ATTTGAAGATGACTTTAGGTAATTATGGAACTCCTCAAAGAGGAGAAAGTAATTTTTTCCAGACATTTTCTC
ATTCTGTGTCTTTACACACTAGTTTCCATAGTTCGAGAATTCTGTTTTTTACCATTGGGCTGTGAATGTTTACA
ATATCAGTCCTGTTGAATTCCTATGAGGTAATCACAATGTGTATATGTTTCTTTCTAGGTATGATAAAAGAATG
TATGGCTTTTTATTCTGTGGAAGTAAATCCTGAACGTTTACAACTTTCTTAACTTGTAATAAAAAATTGTA
AGTTTTTTCTTTTTTTACAGAAACTTAGCTTGTTAATTCTGTTAGTTTCAGATTTCTCTCCTGTTTTTGCAA
TTGTGGGAAAGATTGACAATGCAATGTGTCAAAGACATACTGTTGGGTGCAATATTAACAATTTTAAATGCAA
TTTCTTTGGATAAATTATTTCTATATTCTGTAAATCTGAGATTTAATGTATATTTTGTTTAAAAAATGATTTAG
TAAATCTTTGAAAAGTAAAAAATTTTTTTTTT

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FIGURE 1082

MSTERDSETTFDEDSQPNDÉVVPYSDDETEDELDDQGS AVEPEQNRVNREAEENREPF RKECTWQVKANDRKYHE
QPHFMNTKFLCIKESKYANNAIKTYKYNFTFIPMNLFEQFKRAANLYFLALLILQAVPQISTLAWYTTLVPLLV
VLGVTAIKDLVDDVARHKMDKEINNRTCEVIKDGFRKVAKWKEIQVGDVIRLKKND FVPADILLSSSEPNSLCY
VETAELDGETNLKFKMSLEITDQYLQREDTLATFDGFIECEEPNNRLDKFTGT LFWRNTSFPLDADKILLRGCVI
RNTDFCHGLVIFAGADTKIMKNSGKTRFKRTKIDYLMNYMVYTI FVVLLILLSAGLAIGHAYWEAQVGNSSWYLYD
GEDDTPSYRGFLIFWGYIIVLNTMVPISLYVSVEVIRLGQSHFINWDLQMYA EKDTPAKARTTTLNEQLGQIHY
IFS DKTGTLTQNIMTFKKCCINGQIYGDHRDASQHNHNKIEQVDFSWNTYADGKLAFYDHYLIEQIQSGKEPEVR
QFFFLAVCHTVMVDRTDGQLNYQAASPDEGALVNAARNFGFAFLARTQNTIT ISELGTERTYNVLA ILDFNSDR
KRMSIIVRTPEGNIKLYCKGADTVIYERLHRMNPTKQETQDALDIFANETLR TLCLCYKEIEEKEFTEWNKKFMA
ASVASTNRDEALDKVYEEIEKDLILLGATAIEDKLQDGV PETISK LAKADIKIWVLTGDKKETAENIGFACELLT
EDTTICYGEDINSL LHARMENQRNRGGVYAKFAPPVQESFFPPGGNRALIITG SWLNEILLEKKT KRNKILKLKF
PRTEEERMRTQSKRRLEAKKEQRQKNFVDLACECSAVICCRVTPKQKAMVVD LVKRYKKAITLAIGD GANDVNM
IKTAHIGVGISGQEGMQAVMSSDYSFAQFRYLQRLLLVHGRWSYIRMCKFLRYFFYKNFAFTLVHFWYSFFNGYS
AQ TAYEDWFI TLYNVLYTSLPVLLMGLLDQDVSDKLSLRFPGLYIVGQRDLLFNYKRFFV SLLHGVLTSMILFFI
PLGAYLQTVGQDGEAPSDYQSFAVTIASALVITVNFQIGLDTSYWTFVNAFSIFGSI ALYFGIMFDFHSAGIHVL
FPSAFQFTGTASNALRQPYIWLTIILTAVCLLPVVAIRFLSMTIWPSESDKI QKHKRLKAEEQWQRRQQVFRR
GVSTRRSAYAFSHQRGYADLISSGRSIRKKRSPLDAIVADGTAEYRRTGDS

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FIGURE 1083

GTTCACTACTACAGGAAAACTGTTCTCTCTGTGGCACAGAGAACCCTGCTTCAAAGCAGAAGTAGCAGTTCCG
GAGTCCAGCTGGCTAAAACATCCCAGAGGATAATGGCAACCCATGCCTTAGAAATCGCTGGGCTGTTTCTTGG
TGGTGTGGAAATGGTGGGCACAGTGGCTGTCACTGTCAATGCCTCAGTGGAGAGTGTCCGGCCTTCATTGAAAACAA
CATCGTGGTTTTTGAACCTTCTGGGAAGGACTGTGGATGAATTGCGTGAGGCAGGCTAACATCAGGATGCAGTG
CAAATCTATGATTCCCTGCTGGCTCTTTCTCCGGACCTACAGGCAGCCAGAGGACTGATGTGTGCTGCTTCCGT
GATGTCCTTCTTGGCTTTCATGATGGCCATCCTTGGCATGAAATGCACCAGGTGCACGGGGGACAATGAGAAGGT
GAAGGCTCACATTCTGCTGACGGCTGGAATCATCTTCATCATCACGGGCATGGTGGTGTCTATCCCTGTGAGCTG
GGTTGCCAATGCCATCATCAGAGATTTCTATAACTCAATAGTGAATGTTGCCCAAAAACGTGAGCTTGGAGAAGC
TCTCTACTTAGGATGGACCACGGCACTGGTGTGATTGTTGGAGGAGCTCTGTTCTGCTGCGTTTTTTGTTGCAA
CGAAAAGAGCAGTAGCTACAGATACTCGATACCTTCCCATCGCACAAACCAAAAAAGTTATCACACCGGAAAAGAA
GTCACCGAGCGTCTACTCCAGAAGTCAGTATGTGTAGTTGTGTATGTTTTTTAACTTTACTATAAAGCCATTTA
CTTCAAAATGACATTGCTAAAGACTGCATTATTTTACTACTGTAATTTCTCCACGACATAGCATTATGTACATAG
ATGAGTGTAAACATTTATATCTCACATAGAGACATGCTTATATGGTTTTATTTAAATGAAATGCCAGTCCATTAC
ACTGAATAAATAGAACTCAACTATTGCTTTTTCAGGGAAATCATGGATAGGGTTGAAGAAGGTTACTATTAATTGT
TTAAAAACAGCTTAGGGATTAATGTCTCTCCATTTATAATGAAGATTAAATGAAGGCTTTAATCAGCATTGTAAA
GGAAATTGAATGGCTTTCTGATATGCTGTTTTTTAGCCTAGGAGTTAGAAATCCTAAGTTCTTTATCCTCTTCTC
CCAGAGGCTTTTTTTTTTCTTGTGTATTAAATTAACATTTTTTAAAAAGCAGATATTTTGTCAAGGGGCTTTGCATT
CAAACCTGCTTTTCCAGGGCTATACTCAGAAGAAAGATAAAAGTGTGATCTAAGAAAAAGTGATGGTTTTAGGAAA
GTGAAAATATTTTTGTTTTGTATTGAAGAAGAATGATGCATTTTGACAAGAAATCATATATGTATGGATATAT
TTTAATAAGTATTTGAGTACAGACTTTGAGGTTTCATCAATATAAATAAAAGAGCAGAAAAATATGCTTGGTTT
TCATTTGCTTACCAAAAAACAACAACAAAAAAGTTGTCCTTTGAGAACTTCACCTGCTCCTATGTGGGTACCT
GAGTCAAAATTGTCATTTTTGTTCTGTGAAAAATAAATTCCTTCTTGTACCATTTCTGTTTAGTTTTACTAAAA
TCTGTAAATACTGTATTTTTCTGTTTATTCCAAATTTGATGAACTGACAATCCAATTTGAAAGTTTGTGTGAC
GTCTGTCTAGCTTAAATGAATGTGTTCTATTTGCTTTATACATTTATATTAATAAATTGTACATTTTCTAATTA
TTTGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1084

MATHALEIAGLFLGGVGMVGTVAVTVMQWRVSAFIENNIVVFENFW EGLWMNCVRQANIRMQCKIYDSLLALSP
DLQAARGLMCAASVMSFLAFMMAILGMKCTRCTGDNEKVKAHILLTAGIIFIITGMVVLIPVSWVANAIIRDFYN
SIVNVAQKRELGEALYLGWTTALVLIVGGALFCCVFCNEKSSSYRYSIPSHRTTQKSYHTGKKSPSVYSRSQYV

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FIGURE 1085

ATTACTGTGAGCCTCCTTGTCAGCACTCCACCAAAGCCTCTGCCTCAGCCTTACTGTGAGTCTGGTTGACAGTAG
CTTCTAAGATGTCCTCCAGCAACACACACTGCCAGTGACCCCTCTCCCCTGCCCTCAGTCAGGAGCTCCTCAAGACTG
TTCTCTCTCCAGTCAATACCCATCAGGAGCAAATGAAACAGCCAACTCCACTGCCTCCCCATGCCAGAAGGTGC
CTGTGAGCTCCAGTGGAGGTCCCATCAAAGCAAGAGGAAAAGCACATGACTGCTGTAAAGGGACTGCCTGAGC
AAGAATGTGAGCAACAGCAGAAGGAGCCACAGGAGCAGGAGCTGCAGCAACAGCACTGGGAACAGCATGAGGAAT
ATCAGAAAGCAGAAAACCCAGAGCAGCAGCTTAAGCAGGAGAAAACACAAAGGGATCAGCAGCTAAACAAACAGC
TGGAAGAAGAGAAGAAGCTCTTAGACCAGCAACTGGATCAAGAGCTAGTCAAGAGAGATGAGCAACTGGGAATGA
AGAAAGAGCAACTGTTGGAGCTCCCAGAGCAGCAGGAGGGGCACCTGAAGCACCTAGAGCAGCAGGAGGGGACAGC
TGAAGCACCCGGAGCAGCAGGAGGGGCAGCTGGAGCTCCCAGAGCAGCAGGAGGGGCAGCTGGAGCTCCCAGAGC
AGCAGGAGGGGCAGCTGGAGCTCCCAGAGCAGCAGGAGGGGCAGCTGGAGCTCCCAGAGCAGCAGGAGGGGCAGC
TGGAGCTCCACAGCAGCAGGAGGGGCAGCTGGAGCTCTCTGAGCAGCAGGAGGGGCAGCTGGAGCTCTCTGAGC
AGCAGGAGGGGCAGCTGGAGCTCTCTGAGCAGCAGGAGGGACAGCTGAAGCACACTGGAGCACCAGGAGGGGCAG
CTGGAGGTCCCAGAGGAGCAGATGGGGCAGCTGAAGTACCTGGAACAGCAGGAGGGGCAGCTGAGGCACCTGGAT
CAGCAGGAGAAGCAGCCAGAGCTCCCAGAGCAGCAGATGGGGCAGCTGAAGCACCTGGAGCAGCAGGAGGGGCAG
CCTAAGCATCTGGAGCAGCAGGAGGGGCAACTGGAGCAGCTGGAGGAGCAGGAGGGGCAGCTTGAAGCACCTTG
AGCAGCAGGAGGGGCAGCTGGAGCACCGTGGAGCACCAAGAGGGCAGCTGGGGCTCCCAGAGCAGCAGGTGCTG
CAGCTGAAGCAGCTAGAGAAGCAGCAGGGGCAGCCAAAGCACCTGGAGGAGGACGAGGGGCAGCTGAAGCACCTG
GTGCAGCAGGAGGGGCAGCTGAAGCATCTGGTGAGCAGGAGGGGCAGCTGGAGCAGCAGGAGAGGCAGGTGGAG
CACCTGGAGCAGCAGGTGGGGCAGCTGAAGCACCTAGAGGAGCAGGAGGGACAACCTGAAGCATCTGGAGCAGCAG
CAGGGGCAGTTGGAGGTCCCAGAGCAGCAGGTGGGGCAGCCAAAGAACCTGGAGCAGGAGGAGAAGCAACTGGAG
CTCCCAGAGCAGCAAGAGGGCCAGGTGAAGCACCTGGAGAAGCAGGAGGCACAGCTGGAGCTCCCAGAGCAGCAG
GTAGGACAGCCAAAGCACCTGGAAACAGCAGGAAAAGCACCTAGAGCACCCAGAGCAGCAGGACGGACAACCTAAAA
CATCTGGAGCAGCAGGAGGGGCAGCTGAAGGACCTGGAGCAGCAGAAGGGGCAGCTGGAGCAGCCTGTGTTTGCC
CCAGCTCCAGGCCAGGTCCAAGACATTCAACCAGCCCTGCCACAAAGGGAGAAGTATTGCTTCCTGTAGAGCAC
CAGCAGCAGAAGCAGGAGGTGCAGTGGCCACCCAAACATAAATAACCACCCGAGTGTCCAGAGGCCCTCAGATC
GTCTCATACAAGGGAAGAGAGAGCCACTGGCTCCACTTATTTGCGGTCCGCTAGGTGGCCCGTCTCATCTGTGAA
CTTGACTCTGTCCCTCTACATGTCTCTTTAATGGGGTGAGGGTGGGGGAGAGAGGGAATTATTGTCCAGTGCCAA
CCCCAATGACCCCAATCCCAACCTCAGGTGAGCAGAGCCTCTACTTGAGGGACTATTGTTACTATAGGAATCCTT
ACTTCCCCAGTATTGAAGCTGAATCAGTGAGTGTGTACAATGATACATAATAAATCCTGGAAGTCTTGGGATCCT

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FIGURE 1086

MSQQHTLPVTLSPALSQELLKTVPVPPVNTHQEQMKQFTPLPPPCQKVPVELPVEVPSKQEEKHMTAVKGLPEQEC
EQQQKEPQEQELQQQHWEQHEEYQKAENPEQQLKQEKTRDQQLNKQLEEEKLLDQQLDQELVKRDEQLGMKKE
QLLELPEQQEGHLKHLEQQEGQLKHPEQQEGQLELPEQQEGQLELPEQQEGQLELPEQQEGQLELPEQQEGQLEL
PQQEGQLELSEQQEGQLELSEQQEGQLELSEQQEGQLKHTGAPGGAAGGPRGADGAAEVPGTAGGAAEAPGSAG
EAARAPRAADGAAEAPGAAGGAA

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FIGURE 1087

GTGCTCCTGGAGGGAAAAAGAAATACAGCCTCAACAGATTAAAAACAAAAGTCACACTTAAGGATCCTTCTAGT
CACATCAGCAGTGTTCTGCCTTTATGTAGTAGTTGGGCATATAATCCTTCCACACAGCCCCTGCAGGGAAAAGGCT
AATCCTTACGGATAATCCACGTGAGATTTCCACACAAGAGAAAAGCACACGCATAGTGAAATGTCAGTCTTTTCAG
TAATGAGGATACCTTTAAGGCACTCTTGGACTCTCGGCAACCACAACATAATAGTTGAAAGATCAAGATTGGCTC
CACGAAAGTGATACGGAGGTTAGGATGCTACTTGCTGCAAACAAGCCCTACTTTGGCCAACATCCTGCTTATTTT
TCAAAAAAGAGGGACAGTGAAAAACAAAACGACATTGGGACATGCTGCTCAAGGTAGTTATATATACGATAAGTT
GTATATATGATCACTGGTAGCCTACCAAAGCTGTAGAAATCTAGGACTGTGCTAATCAGTATCAAACCAAAGATT
TCTATCTCTTCCCGAAAGAGAGGGTATGTGCACCAGTCTACAGTTCCAAAGGACTGCAACAAATGTAGATGGTTC
TGTCTCATCCCTGAGATCAGTTCTACTGAAATGGCAACAACAACTCCAAATACATCTCTCCCTTCTTGAAATCC
CTAAAGCACTATCGCACTCCTAAATGCATTTCTCCACAAGTTAGCACTTGATTGTATACTGTCTTTAATCCTTC
ATTGTTTCATGTATGAAGTTTTTAATCACCCCTAACCCCAAAAAAGATTTCGGTTGTCAAGGGATATATTTCTA
TCCCTGCCAGCACAGTGCTGGACATAGTGAGTACTGAACACCTAAGAGGCACTCATTGAGACTGACTTCTACAGG
ACTTCTACGTGTGTGATAAAAGCCTGTGAATCGTGAGTCCCTGAAATATGGTAGCCTGGCCCAGCTTCTAAAGAG
GACCTTCGTAGCCACAAGGCATGCTAAACCTCTAGGGTCTGATGCTGTTTTTGTTCAAATATAAACGAAAGGCA
CTAGTCAGCCGCTGCATAGACTTTCTAAACAGTGAGTAAATACCATGGAATGTCAGAAATGACTTTATCATCGT
CATCTTGAAGAAAAATATGAACACTGATGAAGGTCATTTTTTTTTTTTGTGACATCTTTCTGTGGCAAAGCTCTTAG
AATTCTTTGCAGTTAGCTGCTGAACAGTATGATGATTTGGGGATTTTCTGAATCATTTGTACTTAGATACTGGAG
TTCAGAAGATGTGATTTTTGTGCTTTTCAGAAAAAGGAACGTGGTAGGGAGTGTTTTTCCACGCTTTTCCAG
TAACCTTTGCAAAAGCATTAATTGTTCACTGGCAATTACTAAATGTATTTTGTGCTCTGAGAAACTCAGCAGTGT
ACTGAGATGTGGCTGGCTGTGCCATCGTCATAGTGCACAGTGACTTTTCTGTTTTCTTATCACTAAAGACTGAGGT
GAGGTTATGAAACTTTTATTGGTCCCATCGTTGTGCGCAGGGTGCAACTGGCTACCTAGAAGCTGATGGCAGGAG
ACTGTTTTCACACACAGGAGATTGTGAGCTGTGTAAGTAGTCATCGCCACTCAAGTAGGACAAGGGTCTTACCCAA
GGCTAGGACCGCCCTGCGGAAACAGAAACATAGACTGAGAACAAACCTCAAGACTATCAGTGTGACCTCCCCATA
ACAAGAGAACCCCATATATAGTTTGAGACTTTCCCTTGAGAACTTATACTAAAACTATTACTCATCAGTCATTC
ACTGATCAGCAGCTAAAGTCCATGAGACCAATGGTTTTATATGGAACCAACGAAGTGGGAGCTAAAACTGCACA
GTGGTCATTCTTTGGCCTCTCCTTGGCTTTATGACTTAAACCAACTACAACCTTCCCTATAGCTTCTAAGCAGTTT
CATCAGCATTACTTGGGAAAACGTGTTGCAAGTCAACCAGTCACTAGGATATTTCTACCCATGCAACGGAAGAAA
AACCATTACTCCAGAAGAGTATATCTAAGTAACTAAAATGGAGGCAGAAAATGTTTTAAGGATTTTCTTCAAAG
AATAAGCCACAGCAATGGTTTTGTAGAAAACCTCTGTGCTTTTGAGCAAGGACTTTTGCCCTCTAGAAAGCAACT
GAGGCCAGGTGCGGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGTGAGCGGATCACCTGAGGTCA
GGAGTTTTGAGACCAGCCTGGCCAACATGGTAAAATCCCGTCTCTACTAAATTTATAAAAAATTAGCCGGGCATGA
TGGTGGGCACCTGTAATCCCAGCTACTTGGGAGGCTGAGGCAGGAGAATCACTTGAACCCAGGAGGCAGAGGTTG
CAGTGAGCCAAGATTGCACACTGCACTCCAGCCTGGGTGACTAGCAAACTCCATCTCAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAA

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FIGURE 1088

AAAAAAAAAATCCACAAAGAAAAGCCCAGGCTCAGAGCCTTCACGATAGAATTTTCTAAGCAGTTAAGGAA
GAATTAACACCAATCCTTCACAGACTCTTTCCAAGAATACAGCAGGTGGGAACCTCTCCCATTTCATACGGAAACG
GGAGGCCGCACCCCTTAGGAATGCACACGTGGGGTCCTCAAGAGGTTACATGCAAATAACCCCAGCAGCACACA
GAGAAGGCGCATAAGCCGCGACCAGGAGGGGTTGCTCCCGAGTCCGTGGCAGGAACCAGAGGCCACATGTGGCTG
CTCGTATTTAAGTTAATTAAAATGGAACGATGGCCGGGCGTG

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FIGURE 1089

MQTNPSSTQRRRISRDQEGLLPSPWQEPEATCGCSYLS

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FIGURE 1090A

CACTCTCCTTCCACCTCGGACCGGCCGTGGCTCCGCAGAGCCAAAGCTCGCTTGTCCCCGGAACCGCCCTGCTGC
CGCCGCTGCTTCTCTGCTCGCGGTTAGCCCGTCAGTCCCTGCTCTGTGCGCGCTCCATCTGGGCCATGGATG
GCGGGGATCTGATGAGCTTCTTTCTTCTGGCATCATTAACGGACCTTTTACCATGAATAGTTCTACTCCTTCTAC
AGGTGTGTATGGCTTTTCTTAGAAATGGCTTCTGAGGAAGCTGCCGTTACTATGGTGAATTATTACACTCCTATTA
CTCCTCACCTTCGAAGCCAGCCTGTTTATATTAGTATTCCAATCACAGAGAACTTAAGACTGACAATCTACCTA
ATCAAGCTCGAGCCCAAGCTGCACTGCAGGCTGTGAGTCCGCTCCAATCAGGAAGCCTGGCCCTTTCTGGAGGTC
CTTCCAATGAAGGCACAGTCTACCTGGGCGAGAGCCCTGTGCTTCGAATAATTATTGAAAACCTCTTTTACCCTG
TTACCTTGGGAAGTTCTTCATCAGATATTTCTAAATTTGGCACAGTCTTGAAGATTATCACCTTTACAAAGAATA
ATCAGTTTCAAGCCTTGCTTCAGTATGCTGACCCAGTAAATGCACATTATGCCAAAATGGCTCTGGATGGCCAGA
ATATCTATAATGCATGCTGCACTCTGCGCATTGACTTCTCCAAGCTCATCAGCCTTAATGTGAAATATAATAATG
ACAAAAGCAGAGACTTCACTCGCTTAGACCTTCTTACTGGTGATGGCCAGCCATCCCTTGAACCCCTTAATTGGC
TGCTGCTTTTGGGGGACCGGGGTATAATTTCTTACCATATGCAGGGGCTGCTGGATTTGCCCCAGCCATTGGA
TTTCTCAAGCTACAGGTCTATCAGTTCAGCTGTTCTTGGAGCTCTTGGTCTCTCACAATCACCTCTTCTGCT
GTCAGTGAAGGATGGCCATTCTTGGGCTAGTGGTATACCAGGAAATTTCTGTTCTACTCGTCACAAATCTCAAT
CCTGATCTTATCACACCACATGGGCTTTTTATCCTATTTGGAGTCTATGGTGTATGATCGAGTGAAGATTATG
TTTAATAAGAAAGAAATGCCTTGGTTCAGATGGCGGATGCAATCAAGCTCAGCTAGCAATGAACCATCTAAGT
GGTCAGAGACTTTATGGGAAAGTGTTCGTGCTACACTGTCCAAACATCAAGCAGTACAGCTTCTCGAGAGGGA
CAAGAAGACCAAGGTCTGACTAAGGATTTAGCAATAGTCTTTTGCATCGCTTTAAAAAGCCGGCTCTAAAAAC
TTCCAGAATATCTTTCCACCATCAGCCACTCTGCATCTTTCCAACATTCCCCCTTCTGTTACAGTGGATGATCTG
AAGAACCTTTTTCATAGAAGCTGGATGTTTCAAGTGAAGGCTTTTAAATTTCTTTCAGAAAGATCGCAAAATGGCGCTC
ATTCAATTGGGATCTGTGGAAGAAGCAATTCAGGCCCTCATTGAGCTTCATAACCATGACCTTGGAGAAAATCAC
CACCTCAGAGTTTCTTCTCAAAATCTACAATCTGACTTTTCTGTGAATTTTTCTCCTAAAACCTGGACCATAATT
TCAGTAAAACCTTCAGACATAGACTGAAGCAGCTCAAGACCAATTTTGCTCTTTCACAAAATAACTCTTTCTG
AGTTTGATATTCAAGTATATTTTAAAAATCAAGGGATTTTTTTTTTTTTTGTATTCCCCCTGCCCCGCCAGTCAA
AGGTTTCTTTTCCCTTTTTTACCATGGTTTCTACAAAATAACCTTCAGGAAAAAGAAAATCAGGAAAAAAATTTT
TTTTCAATAATCTTATTCCCTATATTAAATTAGATTTGAAGAGGATTAACGTTGTTTTAGTTTGGGTCCAGATCA
GCCTTATACAACATTTCTAAACTCATTGTACTTTTTAAAAATTTAAACACAGACTTCTAAAATTACTTGATGTA
AGTAATTTAAATCACTTATGACCAAGTTATTAACCTTATGAATCAGAAGTCTGACCCTGTAGGAAATTATATTC
ACATATAAAGTACATCAGATCTTTGCCATATATTGATGGTTATTATGCATAAACACATTGAGTTGTGTGGAAGC
AGATTTATAAACCCTGCATGTTTTCTTGAATGATTTCTTTTTTTTCACTGTAAGACACTCCTTTAAATAATGCCTA
TCTTTAACTTTTTAAGACTATTTGAAAAATGCAGTGTCTCAGCTGTCCCAGGGAAATTAAGTGGAAATCAACT
AAGATCTGTTAATAAGATGTCAGAATAACTAATAATTTTATTAGGAAAAATCATGTTTTAAATTTCAAAATGAC
ACTTATTTGTCAAGTAATATGATCTTGAAAAATTTTAAAGAAAAATAATCCTACTTATAAACTACTTTTTTATAA
TTGTTTTTCAGAAAAAAGTTTACAGTCTTAAGGAAAATATTAGGTCTATCATATGGTTTGACAGATTTTTTAAA
AGTTATTTTTGGTAAGGTCTTCTTTTAGAAAAAATTAATCTCAAGGGTTTTTTGTACCATAATCTCTAATA
CTTACTCAGAATTACTGTGTATTTACTTAATTTCTTATTATGTGCCTTATTATGTGCTTAAGATACAATAGGTTA
GAGTTTAATCTAAATATCTTGAAAGCTATATTGTGGGCTTGGTAAGCATTTTGTTTTTTCTTCTCTGTTTTGGT
AAGGATTTAAATTTTTTTTCAATTGCAATTTTAAAGTGGTTTTCAATAAGTAATAGTTTTTATCAAATTTTTTGGTGC
TTGGTGCAGAGACGGTGTGGGAAGGGTGAATGGTTTTGGGAATAATTCAGTGCACACCTGTAGGCCTCTTTACA
TTGTGACTGATAGGGGTATTGTCATATCAATTTGGGGCTGTAGAGTGAATCTCAGTTTCATCTTTTACCCTAT
CAGAATTTGTCTCAGGATTACTTGGTTTTTCTCAGTCTCAAGCGAGAAGTTCGTTTTCTTTGTTAATGTGACTT
TCATTACTGAGTACCCACGTATTTGGAGTATGAGAAGGTGGGTATTCTCTACTCTGTCCCTCTCTTTTTTCT
TGAATGTAAGAGTACATTTTAAATGTTGCTTCAGTGATTGTATAATGTAAAATTGTTTCTTTTTTAAAGAACTT
TGCTATTATTTCTTCAATTGTTGATCAGAATTTTTTAAAGCAGAATTTGTCAAAGGGTCATTTTTTGTCTACC
CCTTTTACACTTTTTCAGATTCTCAAAGTGTCTCATCTCAACTTTTAAAGAATAAAGGNNNNNNNNNNNNNNNN
NN
NN
NNCATAGTGTGACCCCTTCTCTTAAAGTAAAAATTAAGAAAATCTCAATCTCTTTGCTGTATTCCAGTGATTAA

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FIGURE 1090B

TTTGAACATAGGGAGGTTTTTACAGAAAGAAATTTTACCAAAAAATAGAGACTGCAAGAGATGATACAGATTGTTT
AAAAAGCAGAATTCACCTCACCCTGAGCAACACTTAGTTGGTAGAATAGAAAGGAGGGATACTAAGTTAAGACTT
TTCAAATGGATCAGTTTGGCTGAATAGATAGATATACTCATGTATGTAGTTGTGGGAGTTTTTGTGTTTTTGT
TTTTACTTATGAAATAAGTTTTGACCTAGACACAAGGGGTATATGAAGGAGGAAAAAAATTTCTTTGCAAAATCT
CCCCAAACTTGCTTTTTTTTTCCCTTCCACACAGGCACTATTATAATTTTCAGTGCCATGTTAAATTGGATTATTT
CATTTACTTTAAGTTAGGAATTACTGTGTAATTTATTAATTCATGATTCTCATAACATTACAGCATAAGTGTAGCA
AAGTTGCTAATAACGGAAGGGGATCATAGTGGTGTGTAATGTAACTTTGAAGTAGGGAATGGCCTTTTAAGTCTG
AGAGAGAACATTTGAATCCTTTTTCAGGGATTGTGTAGGGGTGTGTNNNNNNNNNNNNNNNNNNNNNNNNNNNN
AGATAAGTGTATATACATAAATACACTCTTCTAAAGTTGTATATACATATGCACATTACATACATTTTAATTTAT
TGACAAAATTAACCAATTAAGATTTGGAGATGTGGGATGTTCTTGTTTTAAATAGCATGTTTGAACCATCAG
TTTGTGTCTAAATTAGCTGTAGCACATGGATGTTGTCCATATTAAGCTATTTGCTGTTTGAATTATAGAGGTCT
ACAGTATTTGTGTTGGCATAGTTTTTGTAAAAAAGATTAAAAAATATCAGGATGGTGGAAAACTAGATCTGT
GTATCTCTGTTTTGGCATGCATTTATTCAGTATCTTCTAGCAATGGTTTTTCTCTGTTGATCTACCGTAGTATCC
TATTTTTAAGTTTATTTTATTTTTAAGGAGTATTGTCATCACTTTTCAAGGTGTCTTGACTTCTACACAAAGTAT
ATATATTCAGGACTTTAAAAAATAGCAGTACACATTTAACAGTAGCGAATTACACCAAAATGATTTACTTTGAGA
TTTGAATAATTTGCATAGCAGTAAATGTGTTTTGTGTAACATACAAATAGAAAAATGACCCAGTATCTTAATTG
ATACTTACTGGAGAGTATCAGAAATACCCAGCAGCTCTTACAGAATGCCATAAATCTTTAAGACTAAATATTGA
AATCAATTATTTGAAGTAATGTTTCTGATTTACTGTTAAAGTTGCTGAGCTCAGTTTTTGGAGATATCATTTAT
GCCTGCCTGTTCCCTTATGACAGTGAGGCCTTCTTGGCTCCACCTAGTATGATAATCATGGGTTCTGTTTTAGT
TGATGAGAAGTGGCTCCTATGAATGCCTCTGCTCAATTTCTTTTTATTTTACTTTATTTTATTTTTAGGGGTCTC
GCCAACTCCTGGGCTCGAGTGATTTCTCTGCTCCACCTGCCACAGTGCTGGGGATTACAGGCATGAGCCAC
CACGCCTGGCTCTCTGTTCTTTTCAATGTCTCCGTGCCATCAGTCAGCAGTGCTTACATGTTTAGCATATTGTCA
TGCAGTTTCTCTTCTGTTCCACGAGATATTTTTGGGCAAAAAATTGACAAAAGTACATGTGTTTTTCCCCACCT
ATCCCTTAGAAAACCTAATGTGTACTGCTATTTTTTAAACCAAAAAGAGACAGCGTGACGATGCGTAAAGCATT
TTCTTAGCCTTTTCTTTGTCTTGATCTGTTAATGAGAACAAAAGTCCAGACTCAAAATACTCTACTATTGTGCT
GAAAGAAATACAATTTAGATTGCACAAAATTTGAAAATATAACTCAGCTGTCTTTTAAAGAGTTGTGTTGTTAT
CTACAAGACTATTAGCAGTCTTTTTTTCAGAGCAAATTTTAAACAGCTAGTTGTGAGTGGTTTTAAATATAGAAAAAT
TATTAAATCTTTAGTTTGGAGGGTTTTATAGTGGGAGAAAAACAGGACCAAGTTTATGTGCCCTTCTTCAGTAG
TCTTAATTGACCTTTTCTTCTATTTGAGACTAAAGTAGTATCAGTATTCTGGTTTTTTCAGGAAATATGTACTATA
TAGTTTTTAAAGAATGTTGTGCCACCAACTATTTCATCCAAGCAAAGAATTGTAACATAAAATAAAGTCTCAGTTA
CACTTTTGCCTTTATCACATAATATTCATTGTAGAGCATTGTGCAGGTCCAAGAATAGAGCTGCTCAAAATCTTT
GTGGTAGTTTTCTTTAGTTTTTGTAACTGAGGCATATGTTCCAGAGAACAGGGATATTTGTCTGGTCCAGTGACC
TTGGTGATCATAGTCATAATTGAAAGATGCCTATGGCATGCTTAAATCAGCATTGTCAACTGATTTGTTGTGTA
TTATTTTCACTTCTTGGATCTATGTAGTAGTTGTAATAACAAATATTTAAATAGCTATTTTTTTGATGCCATTAA
AAAAATCATACTCTGGCCTTTTTTCCCCCTTACTGTTGTTTCCAGATCTTTTAAAAATTCATCCCATATCCAGA
AAGTACCAGTTATAAAGATTGCTGACCAAGCAAAGTTTTGCATCAAAGTGTACCTCATTGCTCTGACCAAGAC
TGACTGTTGTGGTTTTAACTCCTCTCTGTAAAGCATTTTGCATTTTCCCCAAGCTCCTTTCTGAAAGAAGAACCA
GTGCAGAGCGGCCCTTACTTTCAATTTCTACTGCTGAATAGACTACTTAGAGAAAATGTGAGTTTCAGTGTGAAC
AGAATGGATTAGGATGACGAGTTTGATGGGCATTTTCACTGCTATCTAAGAAAAAATAGCACAGCTAGG
AGCCTCTGACATTGTCTGGTGTTTTACGTGGTCTGTTTCACTCAAAATTTCCCTTTTTCAGTTTTAAGAATGTTCTG
CTAACAGAAGAAAATGCTGTAAATATTTGTAACAACATTTTTTTTAAACAAGGCCAAAAAAGAAAAAAGGTTTTT
GGGAACAAATGAACCTATAAAGTGGTTTTATATAAACATCAATTGTCTTGTATATTTTGATAAGCAGCAGTAC
CAGCTTTTCAATTGTAAACAGTCTGTGGCATTGGAAAAAAGGAGTCTGTGATTGTTGAAGTGAATTATGTTATAAA
TGCAAAGAGAAGATAAAATATTAAAAACATATTTTCTAAATGCGTAGTGCATGGTTAATTCAAGCTTCTGTACA
CTACAGTATATTCCATTTTCGTTTCAAGTTTGTATATTTGCTGACTATTACTTGATATCTCTAATCTCTTTTCCTAA
CAAATATAGCATTGTAGCATGCCTTTTAATAAATGTCATGACATCTGTACTCTCTTA

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FIGURE 1091

TLLPPRTGRGSAEPKLACPRNRPAAAACFLCSRLARQSLICARLHLGHGWRGSDELLSSGIINGPFTMIVLLLLQ
VCMAFLEMASEEAAVTMVNYYTPITPHLRSQPVYIQYSNHRELKTDNLPNQARAQAALQAVSAVQSGSLALSGGP
SNEGTVLPGQSPVLRRIIENLFYPTLEVLHQIFSKFGTVLKIITFTKNNQFQALLQYADPVNAHYAKMALDQON
IYNACCTLRIDFSKLISLVKYNNDKSRDFTRLDTFLLVMASHPLNPLIGCCFWGHRGIISSPYAGAAGFAPAIG
FPQATGLSVPAVPGALGPLTITSSAVTGRMAIPGASGIPGNSVLLVTNLNPDLTITPHGLFILFGVYGDVHRVKIM
FNKKENALVQMADANQAQLAMNHLSGQRLYGKVL RATLSKHQAVQLPREGQEDQGLTKDFSNSPLHREKFKPGSKN
FQNIFFPSATLHLSNIPPSVTVDLKNLFI EAGCSVKAFKFFQKDRKMALIQLGSV EEA IQALIELHNHDLGENH
HLRVSF SKSTI

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FIGURE 1092

ACGAACAGGCCAATAAGGAGGGAGCAGTGCGGGGTTTAAATCTGAGGCTAGGCTGGCTCTTCTCGGCGTGCTGCG
GCGGAACGGCTGTTGGTTTTCTGCTGGTTGTAGGTCCTTGGCTGGTCGGGCCTCCGGTGTCTGCTTCTCCCCGCT
GAGCTGCTGCCTGGTGAAGAGGAAGCCATGGCGCTCCGAGTCACCAGGAACTCGAAAATTAATGCTGAAAATAAG
GCGAAGATCAACATGGCAGGCGCAAAGCGCGTTTCTACGGCCCCTGCTGCAACCTCCAAGCCCGGACTGAGGCCA
AGAACAGCTCTTGGGGACATTGGTAACAAAGTCAGTGAACAACCTGCAGGCCAAAATGCCTATGAAGAAGGAAGCA
AAACCTTCAGCTACTGGAAGAGTCATTGATAAAAACTACCAAACCTCTTGAAAAGGTACCTATGCTGGTGCCA
GTGCCAGTGTCTGAGCCAGTGCCAGAGCCAGAACCTGAGCCAGAACCTGAGCCTGTTAAAGAAGAAAACTTTCG
CCTGAGCCTATTTTGGTTGATACTGCCTCTCCAAGCCCAATGGAAACATCTGGATGTGCCCTGCAGAAGAAGAC
CTGTGTCAGGCTTTTCTCTGATGTAATTCTTGCAAGTAAATGATGTGGATGCAGAAGATGGAGCTGATCCAAACCTT
TGTAAGTGAATATGTGAAAGATATTTATGCTTATCTGAGACAACCTTGAGGAAGAGCAAGCAGTCAGACCAAAATAC
CTACTGGGTCGGGAAGTCACTGGAACATGAGAGCCATCCTAATTGACTGGCTAGTACAGGTTCAAATGAAATTC
AGGTTGTTGCAGGAGACCATGTACATGACTGTCTCCATTATTGATCGGTTTATGCAGAATAATTGTGTGCCCAAG
AAGATGCTGCAGCTGGTTGGTGTCTACTGCCATGTTTTATTGCAAGCAAATATGAAGAAATGTACCCCTCCAGAAATT
GGTGACTTTGCTTTTGTGACTGACAACACTTATACTAAGCACCAAATCAGACAGATGGAAATGAAGATTCTAAGA
GCTTTAAACTTTGGTCTGGGTCGGCTCTACCTTTGCACTTCCTTCGGAGAGCATCTAAGATTGGAGAGGTTGAT
GTCGAGCAACATACTTTGGCCAAATACCTGATGGAACATACTATGTTGGACTATGACATGGTGCACTTTCCTCCT
TCTCAAATTGCAGCAGGAGCTTTTGTCTTAGCACTGAAAATTCTGGATAATGGTGAATGGACACCAACTCTACAA
CATTACCTGTCAATACTGAAGAATCTCTTCTCCAGTTATGCAGCACCTGGCTAAGAATGTAGTCATGGTAAAT
CAAGGACTTACAAAGCACATGACTGTCAAGAACAAGTATGCCACATCGAAGCATGCTAAGATCAGCACTCTACCA
CAGCTGAATTCTGCACTAGTTCAAGATTTAGCCAAGGCTGTGGCAAAGGTGTAACTTGTAACCTTGAGTTGGAGT
ACTATATTTACAAATAAAATTGGCACCATGTGCCATCTGTAAAAA
AAA

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FIGURE 1093

MALRVTRNSKINAENKAKINMAGAKRVPTAPAATSKPGLRPR TALGDIGNKVSEQLQAKMPMKKEAKPSATGKVI
DKKLKPLEKVPMLVPVPVSEPVPEPEPEPEPEPEPVKEEKLSP EPI LVDTASPSMETSGCAPAEEDLCQAFSDVI
LAVNDVDAEDGADPNLCSEYVKDIYAYLRQLEEEQAVRPKYLLGREVTGNMRAILIDWL VQVQMKFRLLQETMYM
TVSIIIDRFMQNNCVPKKMLQLVGVTAMFIASKYEEMYPPEIGDFAFVTDNTYTKHQIRQMEMKILRALNFG LGRP
LPLHFLRRASKIGEVDVEQHTLAKYLMELTMDYDMVHFPPSQIAAGAFCLALKILDNGEWTP TLQHYLSYTEES
LLPVMQHLAKNVVMVNQGLTKHMTVKNKYATSKHAKISTLPQLNSALVQDLAKAVAKV

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FIGURE 1094

GGAAACATGCAGCATGTAGTAATTTATGACAGCTTCTTCACTTAGCATGAGGTTTTCAAAGTTCATTGATGTGG
TAGCATTGTGTCAGTACTCTGTGCCTTTTTATGGCTGAATAATTTTTATCATATGGATTTACCACATTTTATCAT
TTTATTTATCCATCATCAGTTGATTGACATTTGAGTTGCTTCTACTTTTTGAGTATTATCAATAATCTGTTATG
AACATTCTTGTACAATTTTTTGGTAGACATTTATCTTCATATTTCTTGGATATATACCTAGGAGCAGAATTGCTG
CGTCAGATGGTAATGCTGTTTAACCTTTTCAGGAACTGTCAGACTGTTCTGAAGTGGGTACATTATTTTACATTC
CAACCAGCAGTGTATGAGAATTCAGTTTCCCCACATCCTCATCAACAGTTGTTATTGCTGTCTTTTTTATTAT
ATTCATCTGTAATGTGAAGTGTATCTCATTGTGGTTTTGATTTACATTTCCCTGATGGTTGATGATTTTCAAC
ATCTTTTCATATACTTATTAGTCATTATGTATCTTCTTTGGAGAATGTCTGTTTCAGATCCTTTACCTACTTTATA
ATTGGTTTTATCTTTTTAATATTGAACTGTAATAGTTTTTAAAAAATATATCCTAAATACAAGTCTCTTATCAGAT
AATATGATTTGCAGATATTTTCTGTCATTCTATGTACTGTCTTTTACATTCTTGATGATAGACTTTTCAGCCCA
AATGTTTTTAACCTTGATGGAATACAATTTATTTTTCTTTTGTGCTTGTGCTTTTCAGTCATATTTGTGAAAAC
TTGCTTATCCACATTACAAAGATTTACTATTTCTAAGTGATTTATAATTTTACCACCTACCTTTAGGTCTCTGA
TCCATTTTGAGTTAATTTTTATGTGCGAGGAGGGAGTCTAAGTTGATTCTTTTACATGTGGATATTTAGTTGTCC
CAGGACCATTTGTTGAATTAAGTGCCCAAGTACATCTATATATAGAGAAAGTAGATTAGTGGTTGTCAGA
GACTGTAAGAAGTGGGAATTGGAGAGTGACTGCCCATAGGTACAGGCATGCTTTTTGGCATTATGAAAATATTC
TGGAATTAGGTAGTGGTGATGGTTGCAGAACTTTTGGAAATATGGTAAAAGACACTGAAATATATGCTTAAAAATG
GTGATTTTTGTGATATATGAATTATACTATAGAACTAATAATAACAGTAATAAAGCAAGGTGTCTTTCCACATCT
CCATGCCTTGTATTTTCATTAAAAAAGCATTTCAGGGCCAGGCTCAGTGGTTTACTCTTGTA
TCCAGCACTTTTGGAGGCCTAGGTGGGAGGATCACTTGAGGCCAGAAGTTCAAACCAGCCTGAGCAACATAGC
AAGACCTTGTCTCCATGAAAAATAAAAAATTAGCCAGAAATGGTGATGTGTGCCTAGAGTTCCAACCTACTTGGAA
AGCTGAGGCAAGAGGATCGCTTGAGCCTAGGAGTTCAAGGTTGCAGTGATCTATAATCACCCTGCACTCCAGCC
TGGGTGACAGAACAAGACCCTGTCTC

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FIGURE 1095A

GAAACATGTCATTAAAGTTTCTTAAATGACGAAGAGGCCAGGAAGATCCTTCAGGTGCTGGAAAGGAATGAGGAGT
TACAGAGGGCCGAGAAGGACAGGATCAGCAAACCTTCAGAAGACAAAGAGGGATATCAGATGGCTTCAGGGAGTGA
CTGGTGAATGGTTTGAAGAAATTCAAAAGAAAAAGTTTTGCAATGAAACAGATGTTAGCCAAATGTTAAAAACAAC
CACTTACATACAGGCTAAGTAAGGAGATGGCAAAAAATGATCCGATAGAATTACCTACATCAAGATCTAAAAATG
TAACTAATCAAAAAAGCCGACACCTTTTTCTTCCCGGATGAGCTTCAGATCGTCATTTGCTTCCCTGTTCTCAT
TCAGGAAATCTGGAAAGGAGACTTCAAAGCTTCCATCACTGGGACAGAAAGGATGTGATGGCCATGCAGGACCTC
CTATGCCTGTGAGGGGAGCTGCTGTGCAGGCAAAAAATATACAATTCACCTCTGGAAAATCATCTAGTTGACAGTA
CATTTGTCCCAAAGCCAGCAGTCATGAGGGAGGAGAGTGGCATGCCTCCACCGTGGGATGCTTCACTGCTGGAGA
ATGAGTTTTTCCAAGTTTTAGATGACTTGGATAGCAAATTGGCTCAGGAACAGTCTGCAAGCTCAGTGAATACCA
GAACACCCCTCAACTATGGATCAAGAACACAGTTCGGTCACTTTTATTCCAGTGGTAACAGACATGGTAATATCA
CAGAAAGGCACAAAAACACTATAATGAACTTCCAATATGTCTATCTATGACATCCTAAGACCAGGAACTCCTA
GGGAAGGTTTTTAAACCTTTTCTCCTAGGACAAGCACAATTTATGATATGTATAGGACAAGGGAGCCCAGAGTCT
TTAAAGAAGATTATGTGCAAAAGAATACTTTTGGCAGTACTTCGCTGTGTTTTGACAGCAGGCAACGGTCCGGCCT
TACCAGCCACAGGGCATTTCACAGCAAGAAGCTTACATTTTCCAGCCACAACCTCAGAGCAAGAGTGGGTTTATAC
CACCAAGGCACCAGCAGAGTCCAAAGAGAATCCTTTATCATCCATCATATGGAACAGATCAGATTCTCTTAGAG
ACAGGGGAGAACAGGAAGAGTTCTTGAGGGCACCATCACCAATGGAAATTGATCCCGCTGACAAGTATGTGTATC
CCAGGGGTTTTTCAGGAGAATAAGAGATATGAATCGTACCATTACAGAATGTTTACCAACGTGTTAGTTTAAATG
CTCCCATGGAGAATGCAATGAGTCCCGACACTTTTGAGAACTCAGAGAACATGCCATTCTACCATCAAAGCAACA
CATTTACCAGATCTTTCTTCAGCAATACCTTTGGACGAAGCGGAGAACAGAGGAGATTTGGACAAGGTCCCTTTTT
GGGGCCAAGAGAAAGGACATTCTTTCTGGTCTGACTTTTCATCGAAGCAGGAAATCATTTCAGTTCTTCTGACAGAG
ACTTTGAAATGATTTCCATGGGAAGCAAATAGTGTATCAGCCATTTCATGGCCATAATGTTTCTTCTGAACTGGG
AATCATTTTCTTCTGGTTATGGAACAGATGTTTCCAGAGGCCAAGAAGAGCCACATCCTTGGCAGTTTGATTTTC
AGAGATCCACACTGGATAGCATGGTGGTATCACATGGTAATGAGACCCAGTTGACTCCTCATTTTGGCACACCAA
ATGTTTGTCTCCATGACTGGTTCAAGCTATCACGTCAAATCTAGTGAGTTGGTAAGTCAACAGGACAGTTCTCCTG
TAGAAGTACATATAAAACAAAGAGCTTCCTCATTTGGAATTGCTCAGACTCTAGCATCCTCATTCAAAACCTCCT
TTTCCAGATTTCTGATGACAGAAGGAATCCTCAGAGTCCCAACTTGCAGAATCCCACAGTCACTTTGCAGAAAA
TTTTTCCAAATAAGCCTGCCTCTCATCCAATGAGAAGCCATACAGAAGTCACTGTGACCAACAGCAATTCAGTTG
ACTCTCTGCCTCTTGCCAAAAGCCAGCCCAATATCTTGGTTCAGAGAAGTAAATAATGAGAAAGACTTAAATGAAT
CTATTTCAGAAGAAGACAAACAGCTAAGCAAGATGGACCAGACAAACAAGGCAGGTGAAATACCCCAACCTGTTT
CACAGACAGGGATCTCAAACCTCTTACCTGATTTTCAAATCCCTTATCCAGGACTCAGCCAAGAGCAACGGGT
TTGGTTTTTAATGCATCTACCATAATAAGTTCAA AAAAAGTCACCCAGAGTCTTTTCCAGGAAAGATACCTCCAAA
TGTATATACCGCACACAGATAAAATCCAATGACATTAAACAAGATAAGAGGTTTACTGAAAACAGAAAACCTGGCT
CAACAGCTTCCCTTCCCTTTCATTTCAGGAACACAGAACACCACCATCTTTCCCCAGGACAGACCAAGGTGTCCACC
AGGAATTAACGTGTAATAATGAAGATATTTCAAGAATTATTACAAATAACCACTGGAGCTCTGCACTGACTGATA
CTCAAAATGCACAATACTCAAAATGCAAGTTAACTCCTGGCCACAAGACCTCGTGTGATTCTTTAGATCTGTCAT
CAGCTGCACTACCAGATTCCCTCACCATCAAAGAATTCTTCCCTTGATGCTCCTGTGGTTCCATCTACTACAGTGT
TCTCCAGGAGAAGTCCCTCAGACAAAGATCCATCGCTAGGAGAAAGAGAAGAAAAAGACAATGCTGGGAAGAACC
AAAAGAATCAGTTTATTGTAAGCCACTCAGAAAACCAAGAGAGAAATGATAGTCTGTGCCTACACATGATGAAG
TGGTTGATGTCAAATGCCATTACACTCTCCTTTTAGGAATGAAAGAGGAAAAGGAAAAATAAGGCATCATATAT
CCTGTATTGAAAAGTTAAGCAAAACAGAAAGTATATCAGTACCCACCAGTGATCACAGGAGCCTCATTGAAGCAA
ATCAAAGCAATTCCAAAGTTTCTGAACTTGACACAATTTATTGTACCTTGCCAAGAAAATCAAGCAGTTTTCTCA
TACATGGCAGGCAGTCAGGAAGTAAATAATGGCTGCTTCATTGAGGAATGGGCCACCTCCCTTCCAAATCAAAA
ATAATGTGGAAGATGCAATGGGGAACATATGTTAAACAAATTTAGTCCAGTTCTCCTGAGTCAGCGAATGAAT
GTTCCAAAGTCCCTTCAGACTCAGCCCTGGAAGCACCTGAAGCCACAGAGAGAATGACAAATGTAAAAAGCAGTG
GATCTACTTCCGTTAGAAAAGGACCACTTCCATTCTCATCAACAGGGCTATGTCATGTCCCTCAGGGGAGCCAC
ATGCCTCAACTGGAAGAGAAGGAAGAAAAAGCCATTGACCTCAGGCATGGATGCTTCTGAGCTAACACCAAGGG
CTTGGGAGAGAATCATTAGCCCTGTGGAAAGTGACTCATCTGTTAGAGATTGTTCTTTAACCAAAAGACAACACC
AAAAGGAAAACCTCCAAGAATACACTGAGAAAGAGGGTAAATGGCTGCCTCCAGGAGAAGTGATTTGCTCTTT

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FIGURE 1095B

CAAATGAAGACCCCTTTACCTTTTTGCTCAGACTTGTCTAGGAAAAGAACGTGGGAAAACATTACATAAAGTTAAGA
CGACTAGTACGTTTTCTGTTTTCTGGTGATGAAGATAATGTAAAATGTCTGGAGGTGGTCTCAATATATTACACTC
TACCGAGGAAACCCAGCAAAAAATTCTGTAACCTCCTTCAACAGTATACACAAAATACTAATTTACTTATAGAAT
CACCTCAAGTGGAGACTGAAACATTTCTTAACGCTTTAGAAAAAGACAAACAGAATTATTCTACACGAGAGCAGT
CAGGAACACCTTCATGTGAAAAATCTAAAGATGTCCGTCAACTCTGATCAGACGCTCACCCTGAAAAATATGACTG
CCTTCCGATTATCAAATAGGGGGCCCCCTAGCTCCTACATTACAGGAAATGGCTTCTGTTGAGGCAGCTGTTTTCTC
TTCCTGAAGAGGAATCTAAAGCTAGAGAGATTTTTTTCAGATAATTTAGCTAAAACACCTCTAGGTGATTTCAGAAA
ACAAGAAGGAAAAGAGGCAAAAAAGTTGCAAAGTGAAACCCCTGCATACTTCATTGATGCTTCAGAGAAAAAATGTAT
CCGAAGAAAAATCTGAAAAATTGTCAACAATCCATTAATTCAAGTAACAGTGGTCCCTCTAGTCTTCCAGCTCTTT
CAGAAGTTAATATTGGAAATTTCCCAAACCTAGAAGAAGTTCTTGGGAGTGTACAGGGAGTGGTAGAGCCATTCCAT
TTACTGGAAGTGGCAAGTGTCCCCAGAAAGATCACACATCCACAGCTGTAGGTGATGGCTCCAGTGGATCACAGC
CTAGGGAAGGCAGAGGGGACATTGGAACCAACTGCCAAAAATGACTAATAAAACACTTTCTCACTCAGAGAGTC
AAGTCTTTGCCCTTACTCCAGCATTGCATAAACTACAGCTTGGTGAGGAGACTCAGTCAGATGAACCAAACTTAG
AGAGTCTGCAGTCTGAACCAAGAGAATTACCTCAAAGAAGTCAGGAGGCAAATATGACAGAGAGCAGGAAGGCTG
AAGATGAAATGCAGAAGTCAGCTTGGGATCAACCTTCACCTTCTGAAAGGAAACAAAAATAAAACCAACTTGGATG
ACCTAGTAAAGGGGGAAAAATAGATCTTCAGTTAAACACAGATTGGCAGCCATGTCTAAAGCCAGCAGAAAATTCC
CAGCTAAAGATGTAAGCCCCAGAAGACATGTAGCTACTATCTTCCCCCAAAGTGGAAGCAGATCTGGCTTTGACC
ATTTATCTCTTGGCAGAGTGGAGTGCAACCCACTGTTCCCTGAGCCTACTCCAAAATCTGCAGAGTCCATTGGCG
AAAGCAGGTTGAGTGAGAACAGAAAGCATGTGAAGAAATCCGAGAACCTTCTCCCCATTACTGTACTACCCAACA
GAGAACCTTCTACACACGTCAGCAACCAGAAGTCTAACAGCATTTTACAACGACATCAGAATGAGTTTAAAAACG
TCTCAGAATCACCATCAAAGCATGAGAATTCTAAAGACGTACAGCAGCTCAGAATTTAGTAAGAGAATCAGGAG
CCCCATCACCATCACATTCACCAGCCTCAGGGAAGCAGAATTCTCTGACAATCAGAGGAGGCTGAGCCCTCCTT
TTCCACTGGAGCCTGCACAGAAATCTAGAGTAAGCAGTCCACTGGCCAGTTTTCTGCGCAACAAAGGAGTGCTT
CATCTCTGGAGTGGGAACCTGAGCCACACCTCTATCGTTCAAAGAGTTTAAAAAGCATTAAATGTTTCATGGCGATC
TACTACGAAAAAGCCATCCTCCAAAAGTCAGGGAGCGCCATTTTTCTGAAAGCACTTCTATTGACAATGCCCTGA
GTGCACTGACCCTTGGGAATGAATTCTCTGTCAACAATGGGTACAGTGAAGATTTCAGATCTTTTTCTGAACTCC
CCTCTGTGATGGAAATGAAAGTTGGGCTTATCGCAGCGGGACAAAAACAGGTCCCAGGTCTGCAATATCTATAT
ACAGACCTATCGACTATGGGATCTTTGGGAAAGAACAACAGTTAGCTTTCTTAGAAAAATGTAAAGAGGTCACTTA
CACAAGGAAGATTATGGAAACCAAGTTTTCTTAAGAACCCTGGCTTCTTAAAGATGATTTGAGGAACCCCTCCCA
ACCCCTCAGAGTCATTAAGCTCAAATTTCTCCAGTAGTCAGGTGCCAGAAGATGGCTTATCTCCAAGTGAACCGC
TTAATATCTATGAGGATGACCCAGTGGACTCAGATTGTGACACAGACACAACCACAGATGATGAATACTACCTGG
ATGAAAAATGACAAAGAGTCAGAACTGTGAGGCTTTTTTCAATAAAATGCTTTACTTTTTTACCCTAAAGCTTATAA
TGGAACCTAAGGTGTACATGTGCATGTGCATGGAAGGATAAAAGATCTAGTCTGGGCAGTGTCTGCTCTGAAATGT
CCCACATCTCCTTTTTTTTTCTCCACACCCTATATAGACACTTCCTGAATGCTAGAACAATGAATTCTTGTTTTG
AGAGAGTCTCTGCTATTTTCTATCTCTGTAAATGTTCTTAGCCTGCCTTTCCACCACTCCCACTTAATCCCTGAT
TCACTGTCTGATTGGGCTTTCTGCTTTACTTCCCTCCTAACATTTTTTCATCTTTAATTGTGATTTACAACCCTA
ATATCCCAGGCACATACAAACTTATGAATTACCCAGCACAACTGTGAAACTCTGTATTGCTTCTTCCGGTCCAC
ACCTTATACTCATGACATTAAATAAAAGGTAGGGATGATAACAGTGGGGTAAATATTATCATCCTGTTTGACTCA
TGAACATTTAGGAAGTTTAAGGTGGTGATCTTCTCTTTCAAACAAAGATAAAGGAATTTATTTTTTAACCTGAGA
AACTGATTGCAAAAAGG

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FIGURE 1096

GACAGACCTAATGCTCTATTAAAGTTCACCTGCAACAGAAACAGTTCATCATTCCCCTGCATATTCTTTTCCTGCT
GCTATCCAGAGAAATCAGCCTCAGCGCCCTGAAAGCTTCCTTTTCCGAGCAGGTGTGAGGGCAGAAACCAACAAA
GGTCATGCTTCACCCCTTCCTCCATCTGCTGCACCTACCACTGATTCTACAGATTCCATAACAGGACAGAAATTC
AGACAGAGAGAAGAAGAGCTGGAATTAATAGACCAACTGCGTAAACATATTGAGTACCGGTTGAAAGTGTCTCTA
CCTTGATCTCGGAGCAGCTCTAACTGACGGTGTGTTCTTTGCCATTGCGCAATCATGTGCGACCTCGATCT
GTCCCAAGCATTATGTTCCCTCACCAGCTGTACCTAAATTAACAATGGCGAAATGCAGGCGAAATGTGGAAAAAT
TTCCTAGAAGCTTGCAGAAAAATTGGTGTACCTCAGGAGCAATTATGTTTGCCTCTCCACATTTTAGAAGAGAAA
GGTTTGAGCCAGGTTGCAGTGACGGTCCAGGCTCTCCTGGAACCTGCCCCACCCAAGCAACAGCAGCACCAGTTA
TCTGCTGTTTGAGGATCCCCAGGACGGTGGGCACTGGCCTGGCCAAAACAAGGAACAGGACACCGTGATTGCTGC
TGCCAGCTGTCTGCTTAAACAAAGCTCTTGTGTGTTCTCAGAAGGGACCGTTCCCATGATTCCCTAACAGGAATAT
TTTGCTTCATTTCTCCATTTTAGGGGAGGTTATTTCCATTTCCATTGAATTTTTTTACGAAGACACCATTGTTTT
TCTCAGATGAAACTTCTCTTACTGAAAACCCAGCACCTAAGCTGCTGTTTTCCTGGAGAGCAGGCGTGTTC
ACGTGCCAGAAAGCACATCTTCTGTGTTAGGCACAAGCATGCTGTGCCATTGTTTTTACCTGGTCTCAAGACAAC
TGGTCTGCTGGTTTCTAAACTTGGTTGTTTATTAGACTCTCCTGGAGTATTTGTTAAAATACAGATTACATTCA
GTAGAGCTGGGGTAAGGCCTAGGAATCTGCATTTTCAACAACCATTCACATGTTTTTGTGTTTGTGGAGAATT
GCTTGAACCCAGGAGGCGGAGGTTGTGGTGAGCCGAGATCGTGCCATTGCACCCAGCCTGGGCAACAAAAGCGA
AATTCCATCTCAAAAAAAGAAAACGCGCCCATCTCGCTCCACCACAAGCGCCTTTATATACTCAATGATGGGTG
GAGGAAAAGGGCCCAAGGGCTCACACCGCACAGGAGCCTTTACTCAAGTTTCAGCTAGTTTTCTTCCCCTGCAT
TTTGAATCCTTTTAGTTGTTGGTGATATCCTTTGGTGTTCAGTGCCTTTGTAAAACAAGTAAATAAGTAAGCG
GAAGATAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1097

GGCCTCAtGTTGCGCCGCTGCGCAAGGGCAACCTGCCCATCCGCTCCATCATCCCCAACCACGCCGACAAGGAG
CGCTTCGCCACGCGCTGCAAGGCGGCCACCGTGCTGCTCTACGACGAGGCCACGGCCGAGTGGCAGCCCGAGCCC
GGCGCTCCCGCTCCGTGCTCGGCCTGCTCCTACAGAAGCTGCGCGACGACGGCTGCCAGGCCTACTACCTCCAA
GGTGGTTTCAACAAGTTTCAAACAGAGTACTCTGAGCACTGCGAGACCAACGTGGACAGCTCTTCTCGCCGAGC
AGCTCGCCACCCACCTCAGTGCTGGGCCTGGGGGGCCTGCGCATCAGCTCTGACTGCTCCGACGGCGAGTCGGAC
CGAGAGCTGCCCAGCAGTGCCACCGAGTCAGACGGCAGCCCTGTGCCATCCAGCCAACCAGCCTTCCCTGTCCAG
ATCCTGCCCTACCTCTACCTCGGCTGCGCCAAGGACTCCACCAACCTGGACGTGCTCGGCAAGTATGGCATCAAG
TATATCCTCAATGTACACCCAACCTACCCAACGCCTTCGAGCACGGCGGCGAGTTTACCTACAAGCAGATCCCC
ATCTCTGACCACTGGAGCCAGAACCTCTCCCAGTTCTTCCCTGAGGCCATCAGCTTCATTGACGAAGCCCGCTCC
AAGAAGTGTGGTGTCTTGGTGCACTGCCTGGCAGGCATCAGCCGCTCAGTGACGGTCACTGTGGCCTATCTGATG
CAGAAGATGAACCTGTCACTCAACGACGCCTACGACTTTGTCAAGAGGAAAAAGTCCAACATCTCGCCCAACTTC
AACTTCAATGGGGCAGCTGCTGGACTTTGAGCGGACGCTGGGGCTAAGCAGCCCGTGCGACAACCACGCGTCGAGT
GAGCAGCTCTACTTTTCCAGCCCAACCAACACAACCTGTTCCCACTCAATACGCTGGAGTCCACGTGAGGCCTG
GTGCACGGGGGGCATGGCACCAGGCCCTGCTCGGCGCGCCACAGGGCTAGGTGGGAGAGCCCAAGCCCGCCACCT
CTGGCCTGAGGAACCCCAAGATGTCACCTGTGCCCAGAGGCCAGGCTGATCGGTGTGCGAGACGCCCTCÀCCA
TCCTTGGGGCAGGGCCCAGCAGGCAAGGTCTCCCACTGCAGGGCTTGCTGGAGAGGCCTCGGCTCTTGACACGT
GGCTTTGGGCGTCCACCAGGGCCTCATCCTGTCCAGGACGCTCCTTTCTGCTGACAGCCAGCCAGTTTGCTGT
TTTTTAAAGACACATCCACGGACCTGAGTTTACTTTTTACTTTTTGGCAGGTAAATCCAAGCTCCCTGGAGCACA
AGAGTGTTTGAGCTCTTCTTGATTTTTCTTTTTTTTTTTTTTTTTTAACAAAAGTGTTATTTTCAGGCTACAT
GCAACAGTGGATTGTATAACCCAGTATTTTCATCCCTTTCCTGATCC

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FIGURE 1098

GLMLRRLRKGNLP IRSIIPNHADKERFATRCKAATVLLYDEATAEWQPEPGAPASVLGLLQKLRDDGCQAYYLQ
GGFNKFQTEYSEHCETNVDSSSSPSSSPPTSVLGLGGLRISSDCSDGESDRELPSSATESDGSPVPSSQPAFPVQ
ILPYLYLGCAKDSTNLDVLGKYGIKYILNVTPNLPNAFEHGGEFTYKQIPISDHWSQNL SQFFPEAISFIDEARS
KKCGVLVHCLAGISR SVTVTVAYLMQKMNL SLNDAYDFV KRKKSNI SPNFNFMGQLLDFERTLGLSSPCDNHASS
EQLYFSTPTNHNLFPLNTLEST

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FIGURE 1099A

GAGGGAACGAGCAAGGGAAGGAAAGCGGGGAAAGGAGGAAGGAAACGAACGAGGGGGAGGGAGGTCCCTGTTTTG
GAGGAGCTAGGAGCGTTGCCGGCCCTGAAGTGGAGCGAGAGGGAGGTGCTTCGCCGTTTCTCCTGCCAGGGGAG
GTCCCCGGCTTCCCGTGGAGGCTCCGGACCAAGCCCTTCAGCTTCTCCCTCCGGATCGATGTGCTGCTGTTAACCC
CGTGAGGAGGCGGCGGCGGCGGCAGCGGCAGCGGAAGATGGTGTGCTGAGAGTGTTAATTCTGCTCCTCTCCTG
GGCGGCGGGGATGGGAGGTCAGTATGGGAATCCTTTAAATAAATATATCAGACATTATGAAGGATTATCTTACAA
TGTGGATTTCATTACACCAAAAAACACCAGCGTGCCAAAAGAGCAGTCTCACATGAAGACCAATTTTTACGTCTAGA
TTTCCATGCCCATGGAAGACATTTCAACCTACGAATGAAGAGGGACACTTCCCTTTTCAGTGATGAATTTAAAGT
AGAAACATCAAATAAAGTACTTTGATTATGATACCTCTCATATTTACACTGGACATATTTATGGTGAAGAAGGAAG
TTTTAGCCATGGGTCTGTTATTGATGGAAGATTTGAAGGATTCATCCAGACTCGTGGTGGCACATTTTATGTTGA
GCCAGCAGAGAGATATATTAAAGACCGAACTCTGCCATTTCACTCTGTCAATTTATCATGAAGATGATATTAATA
TCCCCATAAAATACGGTCCCTCAGGGGGGCTGTGCAGATCATTAGTATTTGAAAGAATGAGGAAATACCAGATGAC
TGGTGTAGAGGAAGTAACACAGATACCTCAAGAAGAACATGCTGCTAATGGTCCAGAACTTCTGAGGAAAAAACG
TACAACCTCAGCTGAAAAAAATACTTGTGAGCTTTATATTAGACTGATCATTGTTCTTTAAATATTACGGAAC
ACGAGAAGCTGTGATTGCCAGATATCCAGTCATGTTAAAGCGATTGATACAATTTACCAGACCACAGACTTCTC
CGGAATCCGTAACATCAGTTTCATGGTGAACGCATAAGAATCAATACAACCTGCTGATGAGAAGGACCCTACAAA
TCCTTTCCGTTTCCCAAATATTGGTGTGGAGAAGTTTCTGGAATTGAATCTGAGCAGAATCATGATGACTACTG
TTTGGCCTATGTCTTCACAGACCGAGATTTTGATGATGGCGTACTTGGTCTGGCTTGGGTGGAGCACCTTCAGG
AAGCTCTGGAGGAATATGTGAAAAAAGTAACTCTATTAGATGGTAAGAAGAAGTCCTTAAACACTGGAATTAT
TACTGTTTCAAGACTATGGGTCTCATGTACCTCCCAAAGTCTCTCACATTACTTTTGCTCACGAAGTTGGACATAA
CTTTGGATCCCCACATGATTCTGGAACAGAGTGCACACCAGGAGAATCTAAGAATTTGGGTCAAAAAAGAAAATGG
CAATTACATCATGTATGCAAGAGCAACATCTGGGGACAACTTAACAACAATAAATTCTCACTCTGTAGTATTAG
AAATATAAGCCAAGTTCTTGAGAAGAAGAGAAACAACCTGTTTTGTTGAATCTGGCCAACCTATTTGTGGAAATGG
AATGGTAGAACAAGGTGAAGAATGTGATTGTGGCTATAGTGACCAGTGTAAAGATGAATGCTGCTTCGATGCAAAA
TCAACCAGAGGGAAGAAAATGCAAACTGAAACCTGGGAAACAGTGCAGTCCAAGTCAAGGTCCCTTGTGTACAGC
ACAGTGTGCATTCAAGTCAAGTCTGAGAAGTGTGCGGATGATTAGACTGTGCAAGGGAAGGAATATGTAATGG
CTTCACAGCTCTCTGCCCAGCATCTGACCCTAAACCAAACCTTCACAGACTGTAATAGGCATACACAAGTGTGCAT
TAATGGGCAATGTGCAGGTTCTATCTGTGAGAAATATGGCTTAGAGGAGTGTACGTGTGCCAGTTCTGATGGCAA
AGATGATAAAGAATTATGCCATGTATGCTGTATGAAGAAAATGGACCCATCAACTTGTGCCAGTACAGGGTCTGT
GCAGTGGAGTAGGCACCTTCAGTGGTCAACCATCACCTGCAACCTGGATCCCTTGTCAACGATTTTAGAGGTTA
CTGTGATGTTTTATGCGGTGCAGATTAGTAGATGCTGATGGTCCCTCTAGCTAGGCTTAAAAAAGCAATTTTTAG
TCCAGAGCTCTATGAAAAATTGCTGAATGGATTGTGGCTCATTGGTGGGCAGTATTACTTATGGGAATTGCTCT
GATCATGCTAATGGCTGGATTTATTAAGATATGCAGTGTTCATACTCCAAGTAGTAATCCAAAGTTGCCTCCTCC
TAAACCACTTCAGGCACCTTTAAAGAGGAGGAGACCTCCACAGCCCATTAGCAACCCAGCGTCAGCGGCCCCG
AGAGAGTTATCAAATGGGACACATGAGACGCTAACTGCAGCTTTTGCCTTGGTTCTTCTAGTGCCTACAATGGG
AAAACCTTCACTCCAAAGAGAAAACCTATTAAGTCATCATCTCCAAACTAAACCCTCACAAGTAACAGTTGAAGAAA
AAATGGCAAGAGATCATATCCTCAGACCAGGTGGAATTACTTAAATTTTAAAGCCTGAAAATTTCAATTTGGGGG
TGGGAGGTGGAAAAGGAACCAATTTTCTTATGAACAGATATTTTAACTTAATGGCACAAAGTCTTAGAATATT
ATTATGTGCCCCGTGTTCCCTGTCTTCGTTGCTGCATTTTCTTCACTTGCAGGCAAACTTGGCTCTCAATAAAC
TTTTACCACAAATTGAAATAAATATATTTTTTTCAACTGCCAATCAAGGCTAGGAGGCTCGACCACCTCAACATT
GGAGACATCACTTGCCAATGTACATACCTTGTTATATGCAGACATGTATTTCTTACGTACACTGTACTTCTGTGT
GCAATTGTAAACAGAAATTGCAATATGGATGTTTCTTTGTATTATAAAATTTTTCCGCTCTTAATTAATAATTAC
TGTTTAATTGACATACTCAGGATAACAGAGAATGGTGGTATTAGTGGTCCAGGATTCTGTAATGCTTTACACAG
GCAGTTTTGAAATGAAAATCAATTTACCTTTCTGTTACGATGGAGTTGGTTTTGATACTCATTTTTTCTTTATCA
CATGGCTGCTACGGGCACAAGTACTATACTGAAGAACACAGTTAAGTGTGTGCAAACTGGACATAGCAGCACA
TACTACTTCAGAGTTTCATGATGTAGATGTCTGGTTTCTGCTTACGCTTTTTAACTTTCTAATTCAATTCCATTT
TTCAATTAATAGGTGAAATTTTATTCATGCTTTGATAGAAATTATGTCAATGAAATGATTCTTTTTATTGTAGC
CTACTTATTTGTGTTTTTTCATATATCTGAAATATGCTAATTATGTTTTCTGTCTGATATGGAAAAGAAAAGCTGT
GTCTTTATCAAAATATTTAAACGGTTTTTTTCAGCATATCATCACTGATCATTGGTAACCACTAAAGATGAGTAAT

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FIGURE 1099B

TTGCTTAAGTAGTAGTTAAAAATTGTAGATAGGCCTTCTGACATTTTTTTTCTTAAATTTTAAACAGCATTGAAG
GTGAAACAGCACAAATGTCCCATTCCAAATTTATTTTTGAAACAGATGTAAATAATTGGCATTTTAAAGAGAAAGC
AAAAACATTTAATGTATTAACAGGCTTATTGCTATGCAGGAAATAGAAGGGGCATTACAAAAATTGAAGCTTGTG
ACATATTTATTGCTTCTGTTTTCCAACCTACATCACTTCACTAGAAAGTAAAGCTATGATTTTCTGACTTCACAT
AGGAGGCAAATTTAGAGAAAGTTGTAAAGATTTCTATGTTTTGGGTTTTTTTTTTCCCTTTTGTAGTTTTTAAGA
GTATAAGGTTTACACAATCATTCTCATAATGTGACGCAAGCCAGCAAGGCCAAAAATGCTAGAGAAAAATAACGGG
ATCTCTTCCCTGTAAACTTGTACAGTATGTGGTGACTTTTTCAAATACAGCTTTTTGTACATGATTTAGAGACA
AATTTTGTACATGAAACCCAGATAGACTATAATAATTCTAAACAAACAAGTAGGTAGATATGTATGTAAATTGC
TTTTAAATCATTTAAATGCCTTTGTTTTTGGACTGTGCAAAGGTTGGAAGTGGGTTTGCATTTCTAAAATGGTGA
CTTTTATTCTGCAAGAGTTCTTAGTAACCTCTTGAGTGTGGTAGACTTTGGAACATGTAAATTTTTTGCTTGTA
TGTTATCCTGTGGTAGGATTTTGGCAGGTACACACACTGCCCTATTTTTATTTTGAGTCTAAGTTAAATGTTTTCT
GAAAAGAGATACATGCACTGAACTCTTCCACTGCGAATCAAGATGTGGTAATATAAAAGGATCAAGACAAATGA
GATCTAATACTACTGTGAGTTTTAATGTCCACTGTGTTTTATACAGTATCTTTTTTTGTTCACTTTGGAAATTTT
TACTAAAAATTGCAAAAAATAAAGTATTGTGCAAAGATGTAAAGGTTTTTTGAACTTGAAATGCATTAATAAATA
GACGATTAAATCAACTTGAAGGTTCTATACTCTTTGAACTCTGAGAACTATCACAAGAAGCTTCCCACAAGGCAG
TGTTTTCTTACAGTTGTCTCTTCTACAAAAGTATAGATTATCTTTATTCTTAATACTTTGGAATCCATGTAGAA
AATTTCCAGTTAGATACTCTGCGTACACACAATAAACCTTTTTAAAACACCCAATAATCTCAACTGCATTACAT
TGTTTCTAATCAATATTCAGTGCTTGTCTTGGTGGAAGAGGTGAGTCATTTTGAAAACCTATGGTCTTGTTTTA
TGTGTTTTTCAAAGTTTTGAATGCTAAGTACCTCATTTATTTTAAAAGCCTAGTTAATGATAAGTTTGTTTAA
AATTTTGAGCCATCATTTTTCTCTTCATAGCAAATAAGGAGAGAATTGACATTTTCAGTGTTACCTAGAAAAGGAA
TTGTAAGCCCAGAATAATCCCTGCATGAGGTAATCTGCTTCAAATCTTTTTTTAGTCAAGGTTAGCTATAAGT
AATCCTTGTTAAATGAGTAAATATGTAATACTTTGTGAATTACTTTGTTAATTTAGGAGCATCAATGTATATTA
TGTTTAGTTATTTATGAACTCTCAATATTGATTGATTGGGTAATTATAAATTAGTTATTTTTACTTGTAATTG
AATGCTTAAATTCTGTTTACAGTCCGTCCTCTCTCCCTCCATCCCTCCCTCCCAAGTTTTATAAATTCAGGTACC
AATTCACAAACAAAATCAGAAATAAAATAAATTTATTGAC

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FIGURE 1100

MVLLRVLILLLSWAAGMGQYGNPLNKYIRHYEGLSYNVDSLHQKHQRAKRAVSHEDQFLRLDFHAHGRHFNLRM
KRDTSLFSDEFKVETSNKVLDYDTSHIYTGHIYGEEGSF SHGSVIDGRFEGFIQTRGGTFYVEPAERYIKDRTL
FHSVIYHEDDINYPHKYGPQGGCADHSVFERMRKYQMTGVVEVTQIPQEEHAANGPELLRKKRTTSAEKNTCQLY
IQTDHLFFKYYGTREAVIAQISSHVKAIDTIYQTDFSGIRNISFMVKRIRINTTADEKDPNPF RFPNIGVEKF
LELNSEQNHDDYCLAYVFTDRDFDDGVLGLAWVGAPSGSSGGICEKSKLYSDGKKKSLNTGIITVQNYGSHVPPK
VSHITFAHEVGHNFSGPHDSGTECTPGESKNLGQKENGNYIMYARATSGDKLNNNKFSLCSIRNISQVLEKKRNN
CFVESGQPICGNGMVEQGEECDGYSQCKDECCFDANQPEGRKCKLKPGKQCSPSQGPCCTAQCAFKSKSEKCR
DDSDCAREGICNGFTALCPASDPKPNFTDCNRHTQVCINGQCAGSICEKYGLEECTCASSDGKDDKELCHVCCMK
KMDPSTCASTGSGVQWSRHFSGRTITLQPGSPCNDFRGYCDVFMRCRLVDADGPLARLKKAIFSPELYENIAEWIV
AHWWAVLLMGIALIMLMAGFIKICSVHTPSSNPKLPPPKPLPGTLKRRRPPQPIQQPQRQRPRESYQMGHMRR

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FIGURE 1101

TTTCATCACTTAAAAGAACCATGTCTATTAAAGAATCTAGCTCACTGGAGTGCATTGCCATTCCAAAAAAGAAGA
TGAATTTAAAAGATAAAAAGCCATGAAGGTGTTGCTTGTGTCCAGAAAGAAAAATCAGTAGTTAAAACCTGGTTCT
GTGAATGCAATCAGCGATTCCCAAGTGAAGATGCAGTAGAAAAGCATGTTTTCTCAGCAAACACAATGGGTTATA
AATGTGTGGTCTGTGGAAAGGTATGTGATGATTACAGGGTTCATTGTTTACACATGAGCCGGATTACGGAGGGG
CACATTTAAATAACTTTCTTTTCTGGTGTCCGACATGCAAAAAGGAGTTAACAAGGAAAGATACTATCATGGCAC
ATGTGACTGAATTTTATAATGGACACAGATATTTTTATGAGATGGATGAGGTAGAAGGTGAAACTTTGCCATCAT
CCTCTACAACATTGGATAATTTGACTGCTAACAAGCCTTCATCAGCTATTACTGTTATTGATCATTCCCCGGCAA
ATAGTTCTCCGAGGGGTAAATGGCAATGCCGGATTGTGAAGATATGTTTGATTCCAGGAATATGTAAAACAGC
ACTGCATGTCTTTGGCAAGCCACAAGTTTCATAGATACAGCTGTGCTCACTGCAGAAAGCCTTTTCATAAGATAG
AAACATTGTACCGACATTGCCAAGATGAGCATGACAATGAGATAAAGATTAAATACTTCTGTGGGCTTTGTGATC
TTATCTTTAATGTGGAAGAAGCATTCTGAGTCATTATGAGGAGCACACAGCATAGATTATGTATTTGTGTCAG
AAAAAAGTAACTTCAATTAAAAACCGAAGATGATTTTCCAGTAATAGAGACCAGTAACCAGTTAACTTGTGGTT
GCCGTGAGAGTTACATCTGTAAAGTCAACAGAAAAGAAGATTATAGCAGATGTCTCCAAATCATGCTGGATAAAG
GAAAACTGTGGTTTTGCTGCGAGTTTATGTTCCGGCAACAGCACAGAATTTAACCGACATGAACACTCATATCCATC
AAGTGCACAAAGAAAAGAGTGATGAGGAGGAGCAGCAGTATGTAATCAAGTGTGGCACCTGCACCAAAGCATTTC
ATGATCCTGAGAGTGCACAGCAGCATTTCATAGAAAACATTGCTTCTTACAGAAACCCAGTGTGGCTCATTTTG
GATCTGAAAAATCAAACCTGTACAAGTTTACTGCTAGTGCCTCACATACAGAGAGAAAACTGAAACAGGCAATAA
ACTATTCAAAAAGTTTAGACATGGAGAAAGGAGTTGAGAATGACCTAAGCTATCAGAATATAGAGGAAGAAATTG
TTGAGCTTCCAGATTGGATTACCTGCGAACCATGACTCATATAGTCTTTGTAGATTTTGATAACTGGTCAAACCT
TTTTTGGTCATCTACCAGGGCATCTAAACCAAGGAACATTTATTTGGGGCTTTCAAGGTACGGTTAATAAGAAAA
ACAAAAGAAAACTTTTTCCACCTCTTAGAATATAGTCAGTTTAAAAGCTCCTCTTAAACCTTCTTGATAGAA
CATAGGAACATAATTGGAATATTGTTCTTTTGTATTATAGTTACTCTGCTAGAATCGTTTTCTTTACATGCCTCT
GTGGTAAATGTTAGCTCTATCTGGTGAATCAAAGTTTATGGATCTTTTGGCCGGGCGCGGTGGCTCACGTCTGTA
ATCCCAGAACTTTGGAAGGCTGAGGCGGACGGATCACGAGGTCAGAAGATCGAGACCATCCTGGCTAACATGGTG
AAACCCCGTCTCTACTAAAAAGAAAAAATAACAAAAATTAGCTGGGCGTGGTGGCGGGCCCCCTGTAGTCCC
AGCTCCTTGGGAGGCTGAGGCAGGAGAATGGTGTGAACCCAGGAGGCGAAGCTTGCAGTGAGCTGAGATCGCACC
ACTGCTCTCCAGCCTGGGCAACAGAGTGAGACTCTGTCTT

[illegible]

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FIGURE 1102B

CTGAATATTGACAATCAGTATGCATCATGAAGCTACATGGCTAACATTGAGTACTCACTGTGTGTGCCAGGCCCT
GGGTTCAATGCTCTACATGCACTTATATTTCAATTAATTCTCTCTGCAACCTGAGATGGTATAGCCACTTCATTT
TACAGAGTTGAAACTGAGGCCCAGAGACTGAAAGTTAAGCCTGAGGTTACAGTCAATAAGAGGCAGAGCTGGAAC
TGAAACCTACGTGTGTCTGACCACCAGTTCATGTTCTGACGGCAGGCTAGTCTGCATCACAGAGTGTGGGGTAGA
TGGTGCATGCCTGCTAGGATGGGCTAGGTATCACTGTAGGTAAGAAACAGCCCCAAACGATGGAAATGTACACCA
CTGAAGGCTCTTTTCTTGCCCATGCTGCACATCCTCCATGGCTCTCCTGTGCCCTGTGCCCCACATGCCCTCATC
CTGCCACGAGAATAAAGGAGCAGCCTCCATATGGGAGCTGTCAGCTGCTCTAAGAGATGAAGGAGAGGGTGGCCA
GTCTCAATGGCTCCCAACTCTTGCCCTCGAGGTGACACACTTCACTTCCAC

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FIGURE 1103

LVLAMSDGAQPFVTCLYKYNFSKYLA

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FIGURE 1104A

TGAGATCGTGTTCATTTTCAGGAAGATATATGCGTCAGGAAAATTTCTATCTTCTTTTGTATTATCAAGGAGATA
TTTGGAGCAGAGTCAACCCTCTCAGTTACATAAAAATAAAAAATGGCATATTCTTGGCAAACGGATCCAAATCCTA
ATGAATCACACGAAAAGCAGTATGAACACCAAGAATTTCTCTTTGTAAATCAACCCCATTTCTTCTAGCCAAAGTCA
GTCTGGGTTTTGTATCAGATAGTAGATGAGATCAGTGGCAAAATTCCACACTACGAGAGTGAAATTGATGAAAACA
CCTTTTTTGTGCCACTGCACCAAAATGGGACTCAACAGGGCATTTCATTAAATGAAGCACACCAAAATATCCTTGA
ATGAATTCACTTCTAAAAGCCGTGAACTCTCCTGGCATCAAGTTAGCAAAGCACCAGCAATTGGTTTTAGTCCTT
CTGTGTTACCAAAACCTCAAAATACGAATAAAGAAIGCTCCTGGGGAAGCCCATAGGAAAACATCATGGTGCTG
ATGATTCCAGATTAGTATTTTAGCTCCATCATTACAAAGTTTGGATAAAATTAATCTAGAGAAAGAATTAGAAA
ATGAAAATCATAACTACCATATAGGATTTGAAAGTAGCATTCTCCACAAATTCATCCTTCTCAAGTGACTTCA
TGCCGAAAGAAGAGAATAAAAAGGAGTGGACATGTGAACATTGTGGAACCATCTTTGATGCTTTTGAAAGGCTCTC
TTCAACCCGGAATGTGGGAAAAGTACATGGCAGAAGAATATAGAGTCAATAGGTTGTTCCATTAGCTAGTGGAAG
TACCTCAAAGCAGCAATACGAGTCTGGCCTCTTTTTGCAACAAAGTAAAAAAATCAGAGAAAGATATCATGCAG
CTGATGTTAATTTCAATTCTGGGAAGATCTGGAGCACTACTACAGCATTTCGGTATCAGCTCTTTTCTAAGACCA
AGTTTAATATACATATTTTTATTGATAACTCAACACAACCTCTTCATTTTATGCCATGTGCTAATTATCTTGTC
AAGATCTAATTGCAGAAATTTCTGCATTTTTCACAAATGACCAGCTACTCCCCAAAGATCATATTCTAAGTGAT
GTGGCTCTGAAGAATTTTACAAAACGACCACTGTTTGGGGAGCCACAAAATGTTTCAAAAAGATAAATCTGTTA
TTCAGCTCCACCTGCAGAAAAGTAGGGAAGCTCCAGGAAAGCTATCTCGAAAGCATGAAGAGGACCACAGTCAGT
TTTATCTGAATCAACTTCTAGAATTTATGCATATTTGGAAAGTATCCAGACAATGTCTCTTAACACTCATCAGAA
AATATGACTTCCACCTGAAATACCTATTGAAAACCCAGGAAAACGTGTATAATATTATTGAAGAAGTTAAAAAAA
TATGCAGTGTCTAGGGTGTGTGGAAACCAACAAATTACAGATGCAGTAAATGAACTAAGTCTAATTCTTCAGA
GAAAAGGAGAGAATTTTATCAAAGTTCAGAGACTTCAGCAAAAGGCTTGATAGAGAAGGTAACAACTGAACTAT
CCACATCCATCTACCAGCTAATCAATGTCTACTGTAACAGCTTTTATGCAGATTTTCAGCCTGTAAATGTACCTA
GATGCACTTCCATCTAATAATCCCGGGCTTCCCTCCACCTCAGCTTCACAGTGTATGCAGCACACAACATTCCAG
AAACCTGGGTGCACAGGATCAATTTCCCTTGAAATAAAGTCACTTCCAAGGGAATCCATGCTCACTGTAAAC
TGTTTGGGATTGCCTGTGCAACCAACAATGCAAATTTACTGGCGTGGACTTGTCTTCCACTGTTTCCAAAAGAAA
AATCCATTCTCGGGTCTATGCTGTTTACAGATGACATTACAGAGTGAGCCTCCCGTAGAAATGATAACTCCAGGAG
TGTGGGATGTAAGTCAGCCATCCCCGGTGACCTGCAGATTGATTTTCCAGCTACTGGGTGGGAGTATATGAAAC
CTGATTCTGAAGAGAATAGAAGTAATCTTGAAGAGCCACTAAAGGAGTGTATAAAACATATTGCCAGACTTTTAC
AGAAACAGACTCCCTACTACTCTCTGAAGAAAAGAAAAGATATTTATGGTTTTATCGCTTCTACTGCAATAATG
AAAAGTGTCTCCCTTCTTTAGTCTTGGGTAGTGCCCTGGATGGGATGAAAGGACTGTTTCAGAAAATGCATACCA
TTTTGAGAAGATGGACATTTTCTCAACCTTTAGAGGCTCTTGGGCTTTTGAAGTTTCCAGTTTTCAGATCAAGAAA
TTCGTAAAGTGGCAGTTCAACAATTAGACAACCTCTTGAATGATGAACTACTGGAATATCTCCACAGCTAGTTC
AGGCTGTCAAGTTTGAATGGAACCTTGAGAGTCCTTTAGTGCAACTTCTACTCCACCGCTCCTTGCAGAGCATCC
AGGTTGCCATCGTCTTTACTGGCTGCTAAAAATGCAGAAAATGAAGCTTATTTTAAAGCTGGTATCAGAAGC
TACTAGCTGCTCTCCAATTCTGTGCAGGTAAAGCCTTGAATGATGAGTTTTCCAAGGAGCAGAACTTATCAAAA
TTCTGGGAGATATTGGGGAAAAGTCAAGTCTGCCAGTGACCATCAAAGACAGGAGGTACTGAAGAAAAGAAATTG
GCAGACTAGAAGAGTTCTTTCAAGATGTAAATACTTGTCTCTTCTCTGAACCTGCCCTATGTATAAAAGGGA
TTGATCACGATGCATGTTTCATATTTTACATCTAATGCTTTGCCATTGAAGATTACTTTTCATCAATGCTAATCTGA
TGGGCAAAAACATCAGCATTATTTTAAAGGCTGGAGATGATCTTCGTCAGGATATGCTTGTCTGCAGCTTATTC
AAGTGATGGACAATATTTGGCTGCAGGAAGGCTTGGATATGCAAATGATCATTATATAGATGTCTATCCACAGGAA
AAGACCAACGATTGGTGCAGATGGTACCTGATGCTGTGACCCTAGCAAAGATTTCATCGCCATTCTGGACTGATAG
GACCATTGAAAGAAAATACCATTAATAAAGTGGTTCAGTCAGCACAACTTAAAGGCAGATTATGAAAAGGCCT
TGAGGAACCTTTTCTACTCCTGTGCTGGCTGGTGTGTGTTAATTCATCCTGGGAGTATGTGACCGTCACAATG
ATAATATCATGCTGACAAAGTCGGGCCACATGTTTCATATTGACTTTGGAAAATTCTTAGGTCATGCACAAACAT
TTGGAGGGATAAAAAGGACCGAGCTCCTTTTCAATTTTACTTCAGAGATGGAATACTTTATTACAGAGGGTGGGA
AAAACCCACAGCATTTTCAAGATTTTGTGGAACCTTGTGCTGCTGTGCTTATAATATTATCAGAAAACAGCCAAC
TGCTCTTGAACCTGCTGGAATGATGCTGTATGCAGGACTGCCTGAGCTAAGTGGAATTCAAGACCTGAAATATG
TGTATAATAATCTTCGTCCACAAGACACAGACCTGGAAGCAACAAGTCATTTTACCAAGAAAATAAAGGAAAGTC

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FIGURE 1104B

TGGAGTGTTCCTGTAAATTGAATAACTTGATCCACACACTTGCACAAATGTCAGCCATAAGCCCTGCCAAAT
CTACTTCACAGACTTTTCCTCAGGAATCCTGTTTGCTGAGTACAAC TAGGTCGATTGAAAGAGCAATTTTAGGGT
TCAGCAAGAAATCCAGTAATCTGTATCTGATCCAGGTGACACACAGCAACAACGAAACAAGCCTGACAGAAAAAT
CATTTGAGCAGTTTTCAAAACCTTCACAGCCAACCTTCAGAAGCAGTTTGCATCACTGACTCTCCCAGAGTTTCCTC
ATTGGTGGCACCTACCTTTTACAAATTCAGATCACAGAAGATTTCAGAGATCTAAATCATTACATGGAACAGATAT
TAAATGTATCACATGAAGTTACAAACAGTGATTGTGTACTTAGCTTTTTCTCTCTGAGGCTGTGCAACAAACAG
TTGAATCATCACCTGTGTACCTAGGTGAGAAGAAGTTTCCAGACAAGAAGCCTAAGGTGCAGTTAGTCATATCCT
ACGAGGATGTGAAGCTGACCATACTAGTGAAACACATGAAAAACATTCATCTCCCAGATGGCTCTGCGCCCAGTG
CACATGTTGAATTTTATCTTTTACCATATCCCAGTGAAGTTCTGAGGAGGAAAAACAAAATCTGTTCCAAAATGTA
CGGACCCCACTTACAATGAAATTGTAGTATATGATGAAGTCACAGAGCTCCAAGGACATGTCTTAATGCTTATTG
TGAAGAGTAAAACTGTATTTGTGGGAGCAATTAACATCCGACTCTGTAGTGTCCCACTCGATAAAGAAAAATGGT
ATCCATTAGGAAACAGTATAATTTACCATTGCTATTGAACATATGCATTATTTCATTAAC TACTTGTATTTTTTCA
CTTCCGGGCCCTCTGAATCACATAAGTAAGGCATCTTTGTTGTCAAAGACAGCACAGGGTATTAAGGACACAGAAA
AAAAATCAGAATTAGTCTTTTGTGTTGTTTATTTTCTACCTGTGCTTTTCATTGTTTTTTCATAATCTTTTCTCCT
TCAGTGGAGTACTGATTGCATGAAATTTGATGTGTAAAATAATAAAAGACCTTTAATTAATCATTTTAATATATT
TTAAATTAAACATAGGTTTACATTTGTTTTAATTGTGTGCCTACAGTTAAAAGCAGTATTTTAAATGTATTTTAT
AAGAAAGACAATCAAATAAACCTCATCAATTAATTCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1105

MAYSWQTDPNPNESHEKQYEHQEFLEFVNQPHSSSQVSLGFDQIVDEISGKIPHYESEIDENTFFVPTAPKWDSTG
HSLNEAHQISLNEFTSKSRELSWHQVSKAPAIGFSPSVLPKPQNTNKECSWGSPIGKHHGADDSRFSILAPSFTS
LDKINLEKELENENHNYHIGFESSIPTNSSFSDFMPKEENKRSGHVNIVEPSLMMLLKGSIQPGMWESTWQKNI
ESIGCSIQLVEVPQSSNTSLASF CNKVKKIRERYHAADVNFNSGKIWSTTTAFPPYQLFSKTKFNIHIFIDNSTQP
LHFMPCANYLVKDLIAEILHFCTNDQLLPKDHILSVCGSEEFQNDHCLGSHKMFQKDKSVIQLHLQKSREAPGK
LSRKHEEDHSQFYLNQLLEFMHIWKVSRQCLLTIRKYDFHLKYLLKTQENVYNIIEEVKKICSVLGCVETKQIT
DAVNELSLILQRKGENFYQSSETSAKGLIEKVTTTELSTSIYQLINVYCNSFYADFQPVNVRCTSYLNPGLPSHL
SFTVYAAHNIPETWVHRINFPLEIKSLPRESMLTVKLFGIACATNNANLLAWTCLPLFPKEKSIILGSMLFSMTLQ
SEPPVEMITPGVWDVVSQSPVTLQIDFPATGWEYMKPDSEENRSNLEEPLKECIKHIARLSQKQTPLLLSEEKKR
YLWFYRFYCNNENC SLPLVLGSAPGWDERTVSEMHTILRRWTF SQPLEALGLLTSSFPDQEIRKVAVQQLDNLLN
DELLEYLPQLVQAVKFEWNLESPLVQLLLHRSLSIQVAHRLYWLLKNAENEAYFKSWYQKLLAALQFCAGKALN
DEFSKEQKLIKILGDIGERVKSASDHQRQEVLLKEIGRLEEFFQDVNTCHLPLNPAICIKGIDHDACSIFYTSNAL
PLKITFINANLMGKNISIIFKAGDDL RQDMLVLQLIQVMDNIWLQEG LDMQMI IYRCLSTGKDQRLVQMVPDAVT
LAKIHRHSGLIGPLKENTIKKWF SQHNHLKADYEKALRNFFYSCAGWCVVTFILGVCDRHNDNIMLTSGHMFHI
DFGKFLGHAQTFGGIKRDRAPFI FTSEMEYFITEGGKNPQHFDVELCCRAYNIIRKHSQ LLLNLLEMMLYAGL
PELSGIQDLKYVYNNLRPQD TDLEATSHFTKKIKESLECFPVKLNNLIHTLAQMSAISP AKSTSQTFPQESCLLS
TTRSIERAILGFSSKSSNLYLIQVTHSNNETSLTEKSFEQFSKLHSQ LQKQFASLTLP EFP HWWHLPTNSDHRR
FRDLNHYMEQILNVSHEVTNSDCVLSFFLSEAVQQTVESSPVYLGEKKFPDKKPKVQLVISYEDVKLTILVKHMK
NIHLPDGSAPS AHVEFYLLPYPSEVLRRTKSVPKCTDPTYNEIVVYDEVTELQGHVLM LVLIVKSKTVFVGAINIR
LCSVPLDKEKWYPLGNSIISPLL

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FIGURE 1106

CAGCATGTTGAGCCGGGCAGTGTGCGGCACCAGCAGGCAGCTGCCTCCGGTTTTGGGGTATCTGGGCTCCAGGCA
GAAGCACAGCCTCCCCGACCTGCCCTACGACTACGGCGCCCTGGAACCTCACATCAACGCGCAGATCATGCAGCT
GCACCACAGCAAGCACCACGCGGCCTACGTGAACAACCTGAACGTCACCGAGGAGAAGTACCAGGAGGCGTTGGC
CAAGGGAGATGTTACAGCCCAGATAGCTCTTCAGCCTGCACTGAAGTTCAATGGTGGTGGTCATATCAATCATAG
CATTTTCTGGACAAACCTCAGCCCTAACGGTGGTGGAGAACCCAAAGGGGAGTTGCTGGAAGCCATCAAAC TGGA
CTTTGGTTCCTTTGACAAGTTTAAGGAGAAGCTGACGGCTGCATCTGTTGGTGTCCAAGGCTCAGGTTGGGGTTG
GCTTGGTTTCAATAAGGAACGGGGACACTTACAAATTGCTGCTTGTCCAAATCAGGATCCACTGCAAGGAACAAC
AGGCCTTATTCCACTGCTGGGGATTGATGTGTGGGAGCACGCTTACTACCTTCAGTATAAAAAATGTCAGGCCTGA
TTATCTAAAAGCTATTTGGAATGTAATCAACTGGGAGAATGTAAGTAAAGATACATGGCTTGCAAAAAGTAAAC
CACGATCGTTATGCTGAGTATGTTAAGCTCTTTATGACTGTTTTTGTAGTGGTATAGAGTACTGCAGAATACAGT
AAGCTGCTCTATTGTAGCATTTCTTGATGTTGCTTAGTCATTATTTTCATAAAACAACTTAATGTTCTGAATAATT
TCTTACTAAACATTTTGTATTGGGCAAGTGATTGAAAATAGTAAATGCTTTGTGTGATTGAATCTGATTGGACA
TTTTCTTCAGAGAGCTAAATTACAATTGTCATTTATAAAACCATCAAAAATATTCCATCCATATACTTTGGGGAC
TTGTAGGGATGCCCTTCTAGTCCTATTCTATTGCAGTTATAGAAAATCTAG

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FIGURE 1107

MLSRVCGTSRQLPPVLGYLGSRQKHSLPDLPYDYGALPHINAQIMQLHHSKHHAAYVNNLNVTEEKYQEALAK
GDVTAQIALQPALKFNNGGGHINHSIFWTNLSPNGGGEPKGELLEAIKLDFGSFDKFKEKLTAASVGVQGSWGWL
GFNKERGHLQIAACPNDPLQGTGLIPLLGDVWEHAYYLQYKNVRPDYKAIWNVINWENVTERYMACKK

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FIGURE 1108A

GAGATA TCCTTACCTTACTCAACAGCACCAACAAGGATTGGTGGGAAGGTGGAAGTGAACGATCGTCAGGGTTTTG
TGCCGGCTGCGTACGTGAAGAAATTGGACCCCGCCAGTCAGCCTCCCGGGAGAATCTCTGGAGGAGCAAGGCA
GCATAGCACTGCGGCAGGAGCAGATTGACAATCAATATCATTCTCTGCTGGAAGTGGGTGAGAAGCGTAAAGGCA
TGTTGGAGAAGAGTTGCAAGAAGTTTATGTTGTTCCGTGAAGCGAATGAACTACAGCAATGGATCAATGAGAAGG
AAGCCGCTCTGACAAGTGAGGAGGTGGGAGCAGACTTGAGCAGGTTGAGGTGCTCCAGAAGAAGTTTGATGACT
TCCAGAAGGACCTGAAGGCCAATGAGTCACGGTTGAAGGACATTAACAAGGTAGCTGAAGACCTGGAGTCTGAAG
GTCTTATGGCAGAGGAGGTGCAGGCTGTGCAACAACAGGAAGTGTATGGCATGATGCCAGGGATGAAACTGATT
CCAAGACAGCCTCCCCGTGGAAGTCTGCTCGTCTGATGGTTACACCGTGGCCACCTTTAATTCCATCAAGGAGC
TGAATGAGCGCTGGCGGTCCCTACAGCAGCTGGCCGAGGAACGGAGCCAGCTCTTGGGCAGCGCCCATGAAGTAC
AGAGGTTCCACAGAGATGCTGATGAAACCAAGAATGGATTGAAGAGAAGAATCAAGCTCTAAACACAGACAATT
ATGGACATGATCTCGCCAGTGTCCAGGCCCTGCAACGCAAGCATGAGGGCTTCGAGAGGGACCTTGCGGCTCTCG
GTGACAAGGTAAACTCCCTTGGTGAAACAGCAGAGCGCCTGATCCAGTCCCATCCCGAGTCAGCAGAAGACCTGC
AGGAAAAGTGCACAGAGTTAAACCAGGCCTGGAGCAGCCTGGGGAAACGTGCAGATCAGCGCAAGGCAAAGTTGG
GTGACTCCCACGACCTGCAGCGCTTCCTTAGCGATTTCCGGGACCTCATGTCTTGGATCAATGGAATACGGGGGT
TGGTGTCTCTCAGATGAGCTAGCCAAGGATGTCACCGAGCTGAGGCATTGCTGGAGCGACACCAGGGACACCGGA
CAGAAATCGATGCCAGGGCTGGCACTTTCCAGGCATTTGAGCAGTTTGGACAGCAGCTGTTGGCTCACGGACACT
ATGCCAGCCCTGAGATCAAGCAGAACTTGATATTCTTGACCAGGAGCGTGCAGACCTGGAGAAGGCCTGGGTTTC
AGCGCAGGATGATGCTGGATCAGTGCTTGAAGTGCAGCTGTTCCATCGGGACTGTGAGCAAGCTGAGAAGTGG
TGGCTGCCCCGGGAGGCCTTCTTGAATACCGAAGACAAAGGAGACTCACTGGACAGCGTAGAGGCTCTGATCAAAA
AACATGAAGACTTTGACAAAGCGATTACGTCCAGGAAGAGAAGATTGCTGCTCTGCAGGCCTTTGCCGACCAGC
TCATCGCTGCCGGCCATTATGCCAAGGGAGACATTTCTAGCCGGCGCAATGAGGTCTTGGACAGGTGGCGACGTC
TGAAAGCCCAGATGATTGAGAAAAGGTCAAAGCTAGGAGAATCTCAAACCTCCAACAGTTTACGCCGGGATGTGG
ATGAGATTGAGGCTTGGATCAGTGAAAAATTGCAACAGCGAGTGATGAGTCGTACAAGGATCCCAACATCC
AGAGCAAGCACCAGAAGCACCAGGCTTTTGAAGCAGAGCTGCATGCCAACGCTGACCGGATCCGTGGGGTTATCG
ACATGGGCAACTCCCTCATTGAACGTGGAGCCTGTGCCGGCAGTGAGGATGCTGTCAAGGCCCGCTGGCTGCCT
TAGCTGACCAAGTGGCAGTTCTTGGTGCAAAAGTCAGCGGAAAAGAGCCAGAACTGAAAGAAGCCAACAAGCAGC
AGAACTTCAACACAGGGATCAAGGACTTTGACTTCTGGCTGTCTGAGGTGGAGGCCCTGCTGGCATCCGAAGATT
ATGGCAAAGACCTGGCTTCTGTGAACAACCTGCTGAAAAGCATCAACTGCTGGAAGCAGATATATCTGCCCATG
AGGATCGCCTGAAGGACCTGAACAGCCAGGCAGACAGCCTGATGACCAGCAGTGCCCTTCGACACCTCCCAAGTAA
AGGACAAGAGGGACACCATCAACGGGCGCTTCCAGAAGATCAAGAGCATGGCGGCCTCCCGGCGAGCCAAGCTGA
ATGAATCCCATCGCCTGCACCAAGTTCTTCCGGGACATGGATGACGAGGAGTCTTGGATCAAGGAGAAGAAGCTGC
TGGTGGGCTCAGAGGACTACGGCCGGGACCTAACTGGCGTGCAGAACCTGAGGAAGAAGCACAAGCGGCTGGAAG
CAGAACTGGCTGCGCATGAGCCGGCTATTGAGGCTGCTTGGACACTGGCAAGAAGCTGTCCGATGACAACACCA
TCGGGAAAGAGGAGATCCAGCAGCGCTGGCGCAGTTTGTGGAGCACTGGAAAGAGCTGAAGCAGCTGGCAGCTG
CCCGGGGTGACGGCTGGAAGAGTCCTTGGAATATCAGCAGTTTGTAGCCAATGTGGAAGAGGAAGAAGCCTGGA
TCAATGAGAAAATGACCCTGGTGGCCAGCGAAGATTATGGCGACACTCTTGCCGCCATCCAGGGCTTACTGAAGA
AACATGAAGCTTTTGAGACAGACTTACCCGTCCACAAGGATCGCGTGAATGATGTCTGCACCAATGGACAAGACC
TCATTAAGAAGAACAATCACCATGAGGAGAACATCTCTTCAAAGATGAAGGGCTGAACGGGAAAGTGTGACACC
TGGAGAAAGCTGCAGCCAGAGAAAAGCGAAGCTGGATGAGAACTCGGCCTTCCTTCAGTTCAACTGGAAGGCGG
ACGTGGTGGAGTCTTGGATCGGTGAAAAGGAGAACAGCTTGAAGACAGATGATTATGGCCGAGACCTGTCTTCTG
TGCAGACGCTCCTCACCAAACAGGAACTTTTACGCTGGGCTGCAGGCCTTCAGCAGGAAGGCATTGCCAACA
TCACTGCCCTCAAAGATCAGCTTCTCGCCGCCAAACAGTTTCACTCCAAGGCCATCAGAGCCCGGCACGCCTCCC
TCATGAAGAGGTGGAGCCAGCTTCTGGCCAACTCAGCCGCCCGCAAGAAGAAGCTTCTGGAGGCTCAGAGTCACT
TCCGCAAGGTGGAGGACCTTCTTCTGACCTTCGCCAAAAGGCTTCTGCCTTCAACAGCTGGTTTGAAAATGCAG
AGGAGGACTTAACAGACCCCGTGCCTGCAACTCCTTGAAGAAATCAAAGCTTTGCGCGAGGCCCACGACGCCT
TCCGCTCCTCCCTCAGCTCTGCCAGGCTGACTTCAACCAGCTGGCCGAGCTGGACCGCCAGATCAAGAGCTTCC
GCGTAGCCTCCAACCCCTACACCTGGTTTACCATGGAGGCCCTGGAGGAGACCTGGAGGAACCTACAGAAAATCA
TCAAGGAGAGGGAGCTGGAGCTGCAGAAGGAGCAGCGCGGCAGGAGGAGAACGACAAGCTGCGCCAGGAGTTTG

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FIGURE 1108B

CCCAGCACGCCAACGCCTTCCAACAGTGGATCCAAGAGACCAGGACATACCTCCTCGATGGGTCCTGTATGGTGG
AAGAGTCGGGGACCCTCGAATCCCAGCTTGAAGCTACCAAACGCAAGCACCAGGAAATCCGAGCCATGAGAAGTC
AGCTCAAAAAGATCGAGGACCTGGGGGCCGCCATGGAGGAGGCCCTCATCCTGGACAACAAGTACACGGAGCACA
GCACCGTGGGCCTCGCCCAGCAGTGGGACCAGCTGGACCAGCTGGGCATGCGCATGCAGCACAACCTGGAGCAGC
AGATCCAGGCCAGGAACACAACAGGTGTGACTGAGGAGGCCCTCAAAGAATTCAGCATGATGTTTTAAACACTTTG
ACTAGGACAAGTCTGGCAGGCTGAACCATCAGGAGTTCAAATCTTGCCTGCGCTCCCTGGGCTATGACCTGCCCA
TGGTGGAGGAAGGGGAACCTGACCCTGAGTTGAGGCAATCCTGGACACGGTGGATCCGAACAGAGATGGCCATG
TCTCCTTGCAAGAATACATGGCTTTTCATGATCAGCCGCGAAACTGAGAACGTCAAGTCCAGCGAGGAGATTGAGA
GCGCCTTCCGGGCCCTCTGCTCAGAGGGAAAGCCTTACGTGACCAAGGAGGAGCTCTACCAGAACCTGACCCGGG
AACAAGCCGACTACTGCGTCTCCACATGAAGCCCTACGTGGACGGCAAGGGCCGCGAGCTCCCCACCGCGTTTCG
ACTACGTGGAGTTCACCCGCTCGCTTTTTCGTGAAGTGAAGCCACTCCCTGGGTCACCCACCCCTCGCTGCTTGCCC
TGCGTCGCTTGCTGCATGTCCGCTCCTCTGTGTGCTCTCACTTTCCACTGTAACCTTAAGCCTGCTTAGCTTGG
AATAAGACTTAGGAGAATATGGTGCTTCACTAACCCGCTTCCGGTCCAGTCACAATCATCATGTCACTGTGGGGA
CCCAGATCTGTGTCTTGAAGCAGCTGCCCTCATTCCGACTTCAGAAAATCGAAGCAGCTGGCTCCTCCCCTTGTT
CTCTCTCCACCCCTCCCCCAAATCTGTTTTTCATGTAAAAGACAAATAAATGATGACTTCCCCCAAAAAAAAAA
AAAAAAAC

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FIGURE 1109

GCGCGGCCCCGAACCGCCGCCAGGCCGGCACGGGGGAAGGAGCCGGTGGGGGTAGGGGGTGCGGTGGGGGGTGGG
GACCCCTCCGGCTCTTGGGGGTCCCAGTCCCCGCCGGCTGCTGAGCGGGTGGGGTGGTGGAGGAGCTGCAGAG**ATG**

TCCGGCCAGAGCCTGACGGACCGAATCACTGCCGCCAGCACAGTGTACCGGCTCTGCCGTATCCAAGACAGTA
TGCAAGGCCACGACCCACGAGATCATGGGGCCCAAGAAAAAGCACCTGGACTACTTAATTCAGTGCACAAATGAG
ATGAATGTGAACATCCCACAGTTGGCAGACAGTTTATTTGAAAGAACTACTAATAGTAGTTGGGTGGTGGTCTTC
AAATCTCTCATTACAACATCATCTTTGATGGTGTATGGAAATGAGCGTTTTATTTCAGTATTTGGCTTCAAGAAAC
ACGTTGTTTAACTTAAGCAATTTTTTGGATAAAAGTGGATTGCAAGGATATGACATGTCTACATTTATTAGGCGG
TATAGTAGATATTTAAATGAGAAAGCAGTTTCATACAGACAAGTTGCATTTGATTTACAAAAAGTGAAGAGAGGG
GCTGATGGAGTTATGAGAACAAATGAACACAGAAAACTCCTAAAACTGTACCAATTATTTCAGAATCAAATGGAT
GCACCTTCTTGATTTTAAATGTTAATAGCAATGAACCTTACAAATGGGGTAATAAATGCTGCCCTTCATGCTCCTGTTT
AAAGATGCCATTAGACTGTTTGCAGCATACCATGAAGGAATTATTAATTTGTTGGAAAAATATTTTGATATGAAA
AAGAACCAATGCAAAGAAGGTCTTGACATCTATAAGAAGTTCTTAAGTATGACAGGATGACAAGAATCTCAGAGTTCCTC
AAAGTTGCAGAGCAAGTTGGAATTGACAGAGGTGATATACCAGACCTTTCACAGGCCCTAGCAGTCTTCTTGAT
GCTTTGGAACAACATTTAGCTTCCCTGGAAGGAAAGAAAATCAAAGATTCTACAGCTGCAAGCAGGGCAACTACA
CTTTCCAATGCAGTGTCTTCCCTGGCAAGCACTGGTCTATCTCTGACCAAAGTGGATGAAAGGGAAAGCAGGCA
GCATTAGAGGAAGAACAGGCACGTTTGAAGCTTTAAAGGAACAGCGCCTAAAAGAACTTGCAAAGAAACCTCAT
ACCTCTTTAACAACATGCAGCCTCTCCTGTATCCACCTCAGCAGGAGGGATAATGACTGCACCAGCCATTGACATA
TTTTCTACCCCTAGTTCTTCTAACAGCACATCAAAGCTGCCCAATGATCTGCTTGATTGCAGCAGCCAACCTTT
CACCCATCTGTACATCCTATGTCAACTGCTTCTCAGGTAGCAAGTACATGGGGAGATCCTTCTCTGCTACTGTA
GATGCTGTTGATGATGCCATTCCAAGCTTAAATCCTTTCTCACAAAAAGTAGTGGTGATGTTACCTTTCCATT
TCTTCAGATGTATCTACTTTTACTACTAGGACACCTACTCATGAAATGTTTGTGGATTCACTCCTTCTCCAGTT
GCACAGCCACACCCTTCAGCTGGCCTTAATGTTGACTTTGAATCTGTGTTTGGAAATAAATCTACAAATGTTATT
GTAGATTCTGGGGGCTTTGATGAACTAGGTGGACTTCTCAAACCAACAGTGGCCTCTCAGAACCCAGAACCTTCCT
GTTGCCAAACTCCCACCTAGCAAGTTAGTATCTGATGACTTGGATTTCATCTTTAGCCAACCTTGTTGGGCAATCTT
GGCATCGGAAATGGAACCACTAAGAATGATGTAAATTGGAGTCAACCAGGTGAAAAGAAAGTTAACTGGGGGATCT
AACTGCGAACCAAAGGTTGCACCAACAACCGCTTGGAATGCTGCAACAATGGCACCCCTGTAAATGGCCTATCCT
GCTACTACACCAACAGGCATGATAGGATATGGAATTCCTCCACAAATGGGAAGTGTTCCTGTAAATGACGCAACCA
ACCTTAATATACAGCCAGCCTGTCTGAGACCTCCAAACCCCTTTGGCCCTGTATCAGGAGCACAGATACAGTTT
ATG**TAA**CTTGATGGAAGAAAATGGAATTACTCCAAAAGACAAGTGCTCAAGCAGCAAAAATCCTTACTTCCAGCA
AAATCCAAACTGCTGTCTCTTAAATCTCTTAAACTCTCTTCTCCATTAGGATGCTACAAGTAXCTCAGTGAAGG
CCCATGAAGGGAATTGGGGACTAGTTTATAGGGXGAACGTATTCATTACAGTTTATAAAGGCCAGGATTGGXTTG
GATTTTAGGATTAXGTTC

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FIGURE 1110

MSGQSLTDRTAAQHSVTGSAVSKTVCKATTHEIMGPKKKHLDYLIQCTNEMNVNIPQLADSLFERTTNSSWVVV
FKSLITTHHLMVYGNERFIQYLASRNTLFNLSNFDKSGLQGYDMSTFIRRYSRYLNEKAVSYRQVAFDFTKVKR
GADGVMRTMNTTEKLLKTVPIIQNQMDALLDFNVNSNELTNGVINAAFMLLFKDAIRLFAAYHEGIINLLEKYFDM
KKNQCKEGLDIYKKFLTRMTRISEFLKVAEQVGIDRGDIPDLSQAPSSLLDALEQHLASLEGKKIKDSTAASRAT
TLSSNAVSSLASTGLSLTKVDEREKQAALEEEQARLKALKEQRLKELAKKPHTSLTTAASPVSTSAGGIMTAPAI
IFSTPSSSNSTSKLPNDLLDLQQPTFHPSVHPMSTASQVASTWGDPFSATVDAVDDAIPSLNPFLTKSSGDVHLS
ISSDVSTFTTRTPTHEMFVGFTPSPVAQPHPSAGLNVDVESVFGNKSTNVIVDSGGFDELGGLLKPTVASQNQNL
PVAKLPSPSKLVSDDLSSSLANLVGNLGGNGTTKNDVNWSQPGEKKLTGGSNCEPKVAPTAWNAATMAPPVMA
PATTPTGMIGYGIPPMGSGVPMTPQPTLIYSQPVMRPPNPFPGPVSGAQIQFM

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FIGURE 1111

AAGAATGTGGCAAAGGCTTTAGTATATTCTCAACCCTTACTAAACATAAGATAATTCATACTGGAGAGAAACCCCT
ACAAATGCAATGAATGTGGTAAAGCCTTTAACTGGTCCTCAACTCTTACTAAACATAAGAGAATTCATACTGGAG
AGAAACCCCTACAAATGTGAAGAATGTGGCAAAGCTTTTAACCAGTCCTCAACCCTTACTAGACATAAGATAGTTC
ATACTGGAGAGAAACCCCTACAAATGTGAAGAATGTGGTAAAGCCTTTAAACGGTCCACAACCTCTAAAACATAAGA
GAATTTATACTAAAGAGAAACCATAACAAATGTGAAGAATGTGGAAAAGCCTTTAGTGTATTCTCAACCCTTACTA
AACATAAGATAATTCATACTGGAGCAAAACCTTACAAATGTGACGAATGTGGCAGTGCCTTTAGGGCATTCTCAA
CCCTTACTGAACATAAGAGAGTTCATACTGGAGAGAAAACCTTACAAATGCAATGAATGTGGTAAAGCCTTTAACT
GGTCCTCAACTCTTACTAAACATAAGAGAATTCATACTGGAGAGAAAGCCCTACAAATGTGAAGAATGTGGCAAAG
CTTTTAACCGGTCCTCAAACCTTACTCGACATAAGAAAATTCATACTGGAGAGAAACCATAACAAACCTAAAAGAT
GTGACAGTGCCTTTTGACAACACCCCAAACCTTTCTAGACATAAAAGAAATCATATGGGTGAGAAATCCTAGAAAT
GTGAAGAATGTGACAAAGCCTTTAAGCGGTTGTCACACTTGATTGTATATAAGATAATTCATACTGGAGAAAACCT
CCCAGAAGTGTGACAAATGTGACAAAACATTTAATTAATTCTCATACCTTATTGCACAGGAAAGCATTATATACTT
GAGAAAAATTGTATAAAGAATGGAAAAGTCATTAATATCTGCTCATATCTTAACATCAGCGAGTTGGTATTTAAT
AAAAGC

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FIGURE 1112

ECGKGFSIFSTLTCHKIIHTGEKPYKCNECGKAFNWSSTLTCHKRIHTGEKPYKCEECGKAFNQSSTLTRHKIVH
TGEKPYKCEECGKAFKRSTLTCHKRIYTKEKPYKCEECGKAFSVFSTLTCHKIIHTGAKPYKDECGSAFRAFST
LTEHKRVHTGEKPYKCNECGKAFNWSSTLTCHKRIHTGEKPYKCEECGKAFNRSSNLTRHKKIHTGEKPYKPKRC
DSAFDNTPNFSRHKRNHMGEKS

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FIGURE 1113

TTCGGGTCATCTTTTGTCCCAAGTGCTTAGTCATATTGAGCTAATGTCAAGATCTTGTGTTGTTTAGTATCTTTA
GGAGTTTCGAAGCACAAACCCCGGAGATTTTTGTATTCTTTCAGTGCCTTCGTGAGGAGTAGGCAGGTATAAAATA
GAAAGGTAGGCTCAGAACAAAAAAAAGTATTTGGAATACAGAATTCTGATACACATGACTCTGCCTCTCTGGGT
GAATAAAGAGAAGAGAACTGGACTCAGTTGTACAGACCACCTAGTAACTGACCATGGTGTGATTTTTAAAGCGA
GGAAGCAGATGCCAGGCAGTGAAGACTTGCACACCGTCACACTGTAACTGGTAGAGAGGCAGTGTCTGTATCTTC
CGCTTCTCCTAAACGTTGGTCTAGGGTTCATCCTGCCTTATAGCACATGTTTAGTATACATATCCAAGGAAGTTT
TTTTGGTCACTGAGGCTGAACCTTATGGACAGTACTGCTGATTTAGTGATCTGACCTGAATTAGGGGTTTCACA
AGAATCCAGGTCTTGGTCCATGGAAGAACAGTGAGCACTTTTGATAATTGAGGTCTAGCTTAACATTCTGTGACC
AATAATATTTTAGTTAACAGAGATTCTGGTTCTTGGATCGAGGATATTATGTTTAAACAGGAAAAGGCTCTGAAAG
ATGTAATCTCTCTTTTTTTCAAGTTGCATAGATTGCACATGAGGATTTTGCCCACTTAGCAACTTCATTCTACTT
TTGCAGGAATAGAACCCAAGTCTTCTGACTTTCACTGCATTAGCTTATTTTTTCCCTCATTTTTAGTTCTTTCAAG
AATCATTAAATCCATGCTTGAAAATGTCTGAATGGCACTAATGAGGATAAGTTTTTAACTCTTTGAATTCTTAA
TGTGAAC TAACAGGAAAAAATCTCAGAGCTAACAAATTAGAGTTGGTAAAGGGCCGATTATAAGTGTCTCACA
ATTTATGGGTGTAAATCAAAATGTAACTAGTACAGTCATAAGCTGTTTGTACAATCCTTAGGCCTTAACTTCTT
TGGAATTGGCAAGCTAGGCATTTGACATGTATTTATATAACTGTACGGTTGTAGTTATTAATGATCTTGTCTATTA
TTGTTGATAATGAAAAAAGATCTTCACTATAATTTCTTCGTATAATTCTTATAATGAAACAAGTAAATACTATTA
ACTAGAAAAATCTAGTCTGCAGTTAGCCACACACATCCAACTTATCTCTGCCAGCAGCAAAAGAAAGCTTGA
AAACCTTTGCCAAAATCAGAAAGTTTCCATTTAGATTACATAAGTTTCTGTTGAATTGAAATATATTTAGATAAC
ATTTAAACCATTGATCTTTTGGTATTAACCTCTCAGATGTTTCATAACTTTCTGTCTTTTTTAGTATTCAGGGATAT
TATGTAAAGTTTTTCCCTGCACTGAATCTCTGTGCTTGAGCCTACTGAAATGATCCCCCTAAGCCATGCTGCCTGC
CTTTTGTGTTTAAATGTTTTTTTACACTGACTTATCTCCTTCGTGTGTTACCTCTCCCCCAGAGGAAGACAACAG
AACAGTATAATTTACAGTTTGTACAGGTAAA

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FIGURE 1114

MIPLSHAACLLCLMFFYTDLSPSCVHLSPRGRQONSIIYSLYR

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FIGURE 1115

GGCACGAGGCGCCAGTCCCCTAACCCCTGAGGCTGCCGCGCGGCGGTCACTGCGCCGGGGTAGTGGGCCCCAGTGT
TGCGCTCTCTGGCCGTTCCCTTACACTTTGCTTCAGGCTCCAGTGCAGGGGCGTAGTGGGAT**ATG**GCCAACTCGGG
CTGCAAGGACGTCACGGGTCCAGATGAGGAGAGTTTTCTGTACTTTGCCTACGGCAGCAACCTGCTGACAGAGAG
GATCCACCTCCGAAACCCCTCGGCGGCGTTCCTTCTGTGTGGCCCGCCTGCAGGATTTTAAAGCTTGACTTTGGCAA
TTCCCAAGGCAAAACAAGTCAAACCTTGGCATGGAGGGATAGCCACCATTTTTTCAGAGTCCTGGCGATGAAGTGTG
GGGAGTAGTATGGAAAATGAACAAAAGCAATTTAAATTCTCTGGATGAGCAAGAAGGGGTAAAAAGTGGAATGTA
TGTTGTAATAGAAGTTAAAAGTTGCAACTCAAGAAGGAAAAGAAATAACCTGTGGAAGTTATCTGATGACAAATTA
CGAAAGTGCTCCCCCATCCCCACAGTATAAAAAGATTATTTGCATGGGTGCAAAAGAAAATGGTTTGCCGCTGGA
GTATCAAGAGAAGTTAAAAGCAATAGAACCAAATGACTATACAGGAAAGGTCTCAGAAGAAATTGAAGACATCAT
CAAAAAGGGGGAAACACAAACTCTT**TAGA**ACATAACAGAATATATCTAAGGGTATTCTATGTGCTAATATAAAAT
ATTTTAAACACTTGAGAACAGGGATCTGGGGGATCTCCACGTTTGATCCGTTTTTCAGCAGTGCTCTGAAGGAGTA
TCTTACTTGGGTGATTCCCTTGTTTTTAGACTATAAAAAGAAACTGGGATAGGAGTTAGACAATTTAAAAGGGGTG
TATGAGGGCCTGAAATATGTGACAAATGAATGTGAGTACCCCTTCTGTGAACACTGAAAGCTATTCTCTTGAATT
GATCTTAAGTGTCTCCTTGCTCTGGTAAAAGATAGATTTGTAGCTCACTTGATGATGGTGCTGGTGAATTGCTCT
GCTCTGTCTGAGATTTTAAAAATCAGCTTAATGAGAGTAATCTGCAGACAATTGATAATAACATTTTGAAAATT
GGAAAGATGGTATACTGTTTTTAGAGGAATAAACGTATTTGTGGTTTAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1116

MANSGCKDVTGPDDEESFLYFAYGSNLLTERIHLRNPSAAFFCVARLQDFKLDFGNSQGKTSQTHGGIATIFQSP
GDEVWGVVWKMNKSNLNSLDEQEGVKSGMYVVIEVKVATQEGKEITCRSYLMTNYESAPPSQYKKIICMGAKEN
GLPLEYQEKLKAIEPNDYTGKVSEEIEDIIKKGETQTL

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FIGURE 1117

TGTTGGGGGTATAA~~CT~~GGAAGCTAATTTTTAAAGAATCCTGCCATATCTTTGATAAGGAAGTTCTATGGCTTAA
AGAGTGTAACCACTAGTTTTAGCAGAGATGTTTCCTTTAGTTTTGAAACATTCTTCAACATTTTCAGGTTTCATGAT
GAAAAATGGCTGACTGGATTTAAGTCCTTTATTTTCTATACTCCTGAGCAAAATTCTGAAAAAAGTGGCTGGTCTA
GTTTAGAGAAGAACGCTGATGTGGGAGTATTTTACCATGCATTCTGCTCTAAATCCTTTGCTTCTACTGATAG
ACTATTCTACTTTTCGAAATAAGTTCACATTGCTCTAACACTTTCATAAGTTCAATCTTTTTCTCATTCTGTTTAAA
ATAACCACCATGACCACCAAACGCCTGAAATTCAGTGTAGTTAAAATTATGACTGAAATAGACAGGGAAAACCTG
AGAGTGAACGTTACCCAGCAAATCTGGGTTAAACAGGTTTCGAGTTTTTCCAGAGCACACTGTTTAGGATTTTCAGC
TTCTGTTTCAACCATCTCGGAAACAGGGTGTTTCTCTGCTCCTTTGTGAGGACTAACCATGTGTCCCCGCCACTT
TGCACCAAAGCTGAATATCATCCCAAACCTCTGGATCCTTCTGACGGGCATTTGTGTGGTACACAGGAAGGGGTGC
ATTATGAATATGCAATTACTGGCATGTAATGCTGTCTTCTGCTAAAAATACAAAAAGGGTACTCTGATCTCAGAG
TTGGGAGCTGATTTCTGATTTTCAGCCTAGACAGGTCTGCTTAAAACTATAATCAAGCTGATTGTATTGCCCTGGA
ATTCTAATTTCCAATTTAGGGTTTTGCTATATAATCTCTAGTAGAGTGTGTCTAATCTTTATGAAACCCAGAGTC
TTTGTATAAACTCTATGGATTTTCTTCCATGCGTCTAGGCTGAGCTGAGCTGTGTCTTTAGGCTGAGCTGTAGAG
ACATTAAATTACTGAGTAAATGAAGGTAAACGTTGTTATGTCACTCTGTTTCTGAAAGACCAACTCAAATTCGTCTC
TGCTGTAGCTTTTGATCCTTTTCATTTAATTCTAAGTACACTTGTTATTATAGTAACTGTTGTTGTATGTTATTT
TAGCTTTTTACTTAAGTAGCTATTTAGCAATTTAAATGAAAATGTAATTAGGTTACATCTGTTTACATGCATGT
AATACCACGCAGATGTAACTTCTATTAAAGCCATATTTTCTTTTGGCAAGAAAAGGCAGAAACAAAATCGTGC
CAGTCGCTGGAATACGTCTTGCTCTAAAAAAATTAAAAAAAGGATATACAGAGCACTGTGCCATTATTTATATG
GTGGTTAGAGTACATCACTTCTATTTTTTGAATTAAAAAAATATTAACAAGTAAAAACAAGCATTCTATTC
CATGTTCCCTCTTACAGTTTATCTGGATACGGTGTTTAAAATGACAATACAGCCAGGCGCGGT

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FIGURE 1118

CWGYNWKLIKFKRILPYL

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FIGURE 1119

CCATGAATCCACTCCTGATCCTTGCCTTTGTGGGAGCTGCTGTTGCTGTCCCCTTTGATGATGATGACAAGATTG
TTGGGGGCTACACCTGTGAGGAGAATTCTGTCCCCTACCAGGTGTCCTTGAATTCTGGCTCCCACCTTCTGTGGTG
GCTCCCTCATCAGCGAACAGTGGGTGGTGTGAGCAGGTCACTGCTACAAGCCCCACATCCAGGTGAGACTGGGAG
AGCACAATATCGAAGTCCTGGAGGGGAATGAGCAGTTCATCAATGCAGCCAAGATCATCCGCCACCCCAAAATACA
ACAGGATTACTCTGAACAATGACATCATGCTGATCAAGCTCTCCACACCTGCCGTCATCAATGCCCATGTGTCCA
CCATCTCTCTGCCCCTGCCCTCCAGCTGCTGGCACCAGTGCCTTATCTCCGGCTGGGGCAATACCCTGAGCT
CAGGGGCCGACTACCCAGATGAGCTGCAGTGCCTGGACGCTCCTGTGCTGACCCAGGCTAAGTGTAAGCCTCCT
ACCCTTTAAAGATTACCAGCAAGATGTTCTGTGTGGGCTTCCTTGAGGGAGGCAAGGATTCTGCCAGGGTGACT
CTGGTGGCCCTGTGGTCTGCAATGGACAGCTTCAAGGAATTGTCTCCTGGGGCTATGGCTGTGCCCAGAAGAGAA
GGCCTGGAGTCTACACCAAGGTCTACAACCTATGTGGACTGGATTAAGGACACCATAGCTGCCAACAGCTTAAAGCC
CCTGGTCACTCTGCAGTCTCTATACCAATAAAATAACCCTGTTCTCA

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FIGURE 1120

MNPLLLILAFVGAAVAVPFDDDDKIVGGYTCEENSVPYQVSLNSGSHFCGGSLISEQWVVSAGHCYKPHIQVRLGE
HNIEVLEGNEQFINAAKIIRHPKYNRITLNNDIMLIKLPVAVINAHVSTISLPTAPPAAGTECLISGWGNTLSS
GADYPDELQCLDAPVLTQAKCKASYPLKITSKMFCVGFLEGGKDSCQGDSSGGPVCNGLQGIVSWGYGCAQKRR
PGVYTKVYNYVDWIKDTIAANS

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FIGURE 1121A

ATTTCTATAAAATATCACAAATATTTCCAACAAAAGAGCATAGATGTCTTTTATACAATTCTTTTGAGAATGATT
CTGCAGATTTCTGCATTTTCTCCTCATTAAATTTGACCTGGGATGGTTTTCTACTGAGGAAAAAATCTTTAAGCAA
ACATGTTAAATGTTTACCTATATAAAAAATTATTACTTCAGGTGACTCCGATAATATAACGCATGTGTGGAATGAG
GATGATGGACAGACCTTATCTCCAAGCAGTCTGGCTGCACAGCTCCTAATTCTGGAAACTTTGAAGATGCCCTC
TTAAATATATACAGCAAATAGTCCTTATATTCCCTTACTTGGCATGTGTGAGAAATGTGACTGACAGTTTGGCCAGA
GGTTCACCAGAAAAATCTAAGACTCCTGCAGTCCACAATACGATTTAAAAAATCTTTTCTTCGCAATGGTTCCTAT
GAAGATTACTTTCCCTCCAGTTCCTGAAGTCCTAAAATCAAACTGTCTCAACTTCGAAACTTGACCGAACTTCTT
TGTGAATCTGAACTTTTCAGTTTGATAGAGAAGTCATGCCAGCTCTCTGATATGAGCTTTGGGAGCCTGTGTGAA
GAAAGTGAGTTTGATCTGCAACTCCTCGAAGCGGCAGAGCTGGGCACCGAAATAGCAGCCAGCTTACTGTACCAT
GACAATGTCATATCTAAAAAGTGAGAGATTGCTGACTGGAGATCCAAGCAAAATTAATTTAAATATGGATCAG
TTTCTAGAACAGGCACTGCAAATGAATTACTTGGAAAATATCACTCAGTTAATACCGATCATAGAAGCCATGCTG
CATGTCAATAACAGTGCAGATGCTTCTGAAAAGCCAGGTGAGTTACTAGAAATGTTTAAAAATGTTGAAGAGCTG
AAAGAAGATTTAAGGAGAACACAGGAATGTCCAACAGGACTATTGACAAGTTGCTGGCCATTCCCATCCCTGAT
AATAGAGCTGAGATTATTTCTCAGGTGTTCTGGCTGCATTCTGTGATACTAATATCACCCTCCCAACTAGAA
GATGCAATGAAAGAATTCTGCAACCTGTCTCTTTCAGAGAGATCCCGGCAGTCTTACCTCATCGGACTCACCCCTT
CTGCACTACTTAAACATTTACAACCTTCACATACAAGGTGTTTTTCCCGAGGAAAGATCAAAAAGCCAGTAGAAAAG
ATGATGGAGCTCTTCATAAGACTAAAAGAGATTCTCAATCAGATGGCTTCTGGCACACATCCGCTGCTAGACAAA
ATGAGATCCCTGAAGCAAATGCATCTGCCCAGAAGTGTTCCATTAAACACAGGCAATGTACAGAAGCAACCGAATG
AACACACCACAAGGATCATTTAGCACCATCTCCCAAGCATTATGTTCTCAAGGAATTACCACTGAATATTTAACT
GCCATGCTGCCCTCTTCCCAGAGGCCAAAAGGCAACCACACCAAGGATTTTTTGACTTATAAATTAACATAAGAG
CAAATTGCTTCAAAATATGGAATTCCCATAAATACCACACCATTTTGCCTCTCCCTTTATAAAGACATCATTAAC
ATGCCCCGCTGGACCTGTGATTGTTGGCTTTCTTGAAACCTATGTTGTTGGGAAGAATTTTGATGCACCATATAAC
CCAGTCACAAAGGCAATAATGGAAGTCCGATGTAACCTCTGAGACAGCTGGCGGAATTAAGAGAAAAATCTCAA
GAGTGGATGGATAAGTCGCCACTTTTCATGAATTCTTCCATCTGTTAAACCAGGCAATTCGAATGCTCCAGAAT
ACTCTAAGGAACCCCTTTTGTGCAAGTTTTTGTAAAGTCTCCGTGGGACTCGATGCTGTTGAACATTGAAACAG
ATAGATGAACTCGATATTCTAAGACTGAAATTAGAGAACAACATTGACATCATCGATCAGCTTAACACACTATCT
TCCCTGACAGTAAATATTTCTCTTGTGATTATATGACCGTATTGAGGCAGCAAAAACCATAGATGAAATGGAG
AGAGAGGCTAAAAGGCTCTACAAAAGCAACGAACCTTTTGAAGTGTTATTTTAAAGCTTCCTTCTAACAGAAGC
TGGCACAGAGGCTATGACTCTGGAAATGTCTTTCTTCTCCTGTCTATAAAATATACCATCCGGATGAGTCTCAAG
ACCGCACAGACCACAAGAAGCCTAAGAACCAAGATTTGGGCTCCAGGGCCACACAATTCTCCATCACACAACCAG
ATCTATGGCAGGGCTTTTATTTATTTACAGGATAGTATTGAAAGAGCAATCATTGAATTGCAAACTGGAAGGAAC
TCCCAGGAAATAGCAGTCCAGGTTCAAGCAATTCCTTATCCCTGCTTCATGAAAGACAACCTCTTAACCAGTGTC
TCTTATTCTCTTCCAATTGTGCTTATGGTTGCCTGGGTTGATTTATAGCTGCCTTTGTAAAAAAGCTTGTCTAT
GAGAAAGACCTCCGGCTTCATGAGTACATGAAGATGATGGGTGTGAACCTCTGCAGCCATTTCTTTGCCTGGCTT
ATAGAGAGTGTTGGATTTTACTGGTTACCATCGTGATCCTCATATTATACTCAAGTTTGGCAATATTCTTCTCT
AAAACAAATGGGTTTCAATTTTGTTCCTGTATTTTTCGGACTACAGCTTCTCGGTTATTGCCATGAGCTATCTTATC
AGTGTCTTCTTCAACAACACCAACATTGCAGCTCTGATCGGAAGCCTCATCTACATCATTGCCTTCTTTCCATTT
ATTGTTCTGGTTACAGTGGAGAATGAGTTGAGCTATGTATTGAAAGTGTTTATGAGCCTGCTGTCCCCAACAGCA
TTCAGCTATGCAAGCCAATACATTGCACGATACGAAGAACAGGGCATTGGTCTTCAGTGGGAAAAATATGTACACC
TCCCCGGTTCAAGATGACACCACCTCATTGGCTGGCTGTGCTGTCTAATCCTAGCTGACTCTTTCATTTATTTT
CTTATTGCTTGGTATGTCAGGAATGTCTTCCCAGGGACATACGGTATGGCAGCTCCCTGGTATTTTCCAATTCTT
CCTTCTTATTGGAAGGAGCGATTGGGTGTGCAGAGGTGAAGCCTGAGAAGAGCAATGGCCTCATGTTTACTAAC
ATCATGATGCAGAACCAACCCATCTGCCAGTCTGAATACATGTTTTCTCTAACATCGAGCCTGAACCTAAA
GATCTCACAGTCGGGGTTGCCCTGCATGGGGTCACAAAGATCTATGGCTCAAAAGTTGCTGTTGATAACCTCAAT
CTGAACTTTTATGAAGGGCATATTACTTTCATTGCTGGGGCCCAATGGAGCTGGGAAAACCTACTACCATTTCCATG
TTAACTGGGCTGTTTGGGGCTCAGCAGGCACCATTTTTGTATATGGAAAAGATATCAAAACAGACCTACACAG
GTACGGAAGAACATGGGAGTCTGTATGCAGCACGACGTCTTGTTTCAAGTTACCTCACTACTAAGGAGCACCTTCTC
CTATATGGTTCCATCAAAGTTCCTCACTGGACTAAAAAGCAGCTCCACGAGGAAGTAAAAAGGACTTTAAAGAT

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FIGURE 1121B

ACTGGACTATATAGCCATCGTCATAAGAGAGTTGGAACACTGTCAGGAGGCATGAAGAGGAAGTTATCTATATCC
ATAGCTCTCATTGGTGGATCAAGGGTAGTAATTTTGGATGAACCATCTACTGGAGTTGACCCATGTTCTCGCCGA
AGTATATGGGATGTTATATCCAAGAACAACAACTGCCAGAACAATCATTCTGTCAACGCACCACTTGGACGAGGCT
GAAGTGCTGAGTGACCGCATCGCCTTCTGGAGCAGGGTGGGCTTAGGTGCTGTGGGTCCCCATTTTACCTCAAG
GAAGCCTTTGGCGATGGGTATCACCTCACGCTTACCAAGAAGAAGAGTCCAAATTTAAATGCAAATGCAGTATGT
GACACCATGGCCGTGACAGCAATGATCCAATCACATCTCCCCGAAGCCTACCTCAAGGAGGATATTGGGGGAGAG
CTTGTTTATGTACTTCTCCATTACAGCACCAAGTCTCAGGGGCCTACCTGTCACTCCTACGGGCACTCGACAAT
GGCATGGGTGACCTCAACATCGGGTGCTACGGCATTTCAGATACCACCGTGGAGGAGGTCTTTCTGAACCTTGACC
AAAGAGTCACAAAAAATAGTGCTATGAGTCTTGAGCACTTAACACAAAAGAAAAATTGGGAATTCCAATGCCAAT
GGCATCTCAACTCCTGACGATTTATCTGTGAGCAGCAGCAATTTACAGACAGAGATGACAAAATCCTGACAAGA
GGAGAGAGGCTGGATGGCTTTGGACTGTTGCTGAAGAAGATCATGGCTATACTCATCAAGAGGTTCCACCACACC
CGCAGGAAGTGGAAAGGTCTCATTGCTCAGGTTATCCTCCCCATCGTCTTTGTTACCACTGCCATGGGCCTTGGC
ACACTGAGAAATTCCAGCAACAGTTATCCAGAGATTAGATCTCCCCCTCTCTTTATGGTACCTCCGAACAGACA
GCCTTCTATGCTAATTATCACCCGAGCAGCGAAGCACTTGTCTCAGCAATGTGGGACTTCCCTGGAATTGACAAC
ATGTGTCTGAACACCAGTGATCTACAGTGTTTTAAACAAAGACAGTCTGGAAAAATGGAAACACCAGTGGAGAACCC
ATCACTAATTTTGGTGTTTGCTCCTGCTCAGAAAATGTCCAGGAATGTCTAAATTTAACTATTCCCCACCGCAC
AGAAGAACTTACTCATCCCAGGTAATTTATAACCTCACTGGGCAACGAGTGGAAAAATTATCTTATATCAACTGCA
AATGAGTTTGTCCAAAAAGATATGGAGGTTGGAGTTTGGGGCTGCCTTTGACAAAAGACCTTCGTTTTGATATA
ACAGGAGTCCCTGCCAATAGAACACTTGCCAAGGTATGGTATGATCCAGAAGGCTATCACTCCCTTCCAGCTTAC
CTCAACAGCCTGAATAATTTCTTCTGCGAGTTAACATGTCAAATACGATGCTGCCCCGACATGGCATCATCATG
TATAGCCATCCTTATCCAGGAGTGCAAGACCAAGAACAAGCCACAATCAGCAGTTTTAATCGATATTTTAGTGGCA
CTGTCTATCTTGATGGGCTACTCTGTACACACCGCCAGCTTTGTACCTATGTTGTAAGGGAACATCAAACCAA
GCCAAACAGTTGCAGCACATTTACAGGCAYTGGCGTGACATGCTACTGGGTAACAAACTTCATTTATGACATGGTT
TTCTACTTGGTGCTGTAGCGTTTTCAATTGGTATCATTGCGATTTTCAAATTACCTGCATTCTACAGTGAAAAC
AACCTAGGCGCTGTATCTCTCTACTTCTCCTGTTTGGGTATGCAACATTTTCTTGGATGTAATTGCTGGCTGGG
CTCTTCCATGAAACAGGAATGGCCTTCATCACTTACGTCTGTGTCAACTTGTTTTTTGGCATTAATTCATTGTT
TCCCTGTCAAGTGGTATACTTTCTTTCCAAGGAAAAGCCTAATGATCCGACTTTAGAACTTATTTCTGAAACCTC
AAGCGCATTTTCTGATTTTCCCACAATTCTGTTTTGGCTACGGTTTGATTGAACCTTCTCAACAACAGTCGGTC
CTAGACTTCTTAAAGCATATGGAGTGGAATACCCAAATGAAACCTTTGAGATGAATAAACTAGGTGCAATGTTT
GTGGCTTTGGTTTTCTCAGGGCACCATGTTTTTTCTTGCAGCTCTTAATCAACGAATCCCTGATAAAGAACTC
AGGCTTTTCTTCAGAAAATTTAATTCTTCACATGTAAGGGAGACAATAGATGAGGATGAAGATGTGCGGGCTGAG
AGATTAAGAGTTGAGAGTGGTGCAGCTGAATTTGACTTGGTCCAACCTTTATTGTCTCACAAGACCTACCAACTT
ATCCACAAAAAGATTATAGCTGTAAACAACATCAGCATTGGGATACCTGCTGGAGAGTGTTTTGGGCTTCTTGGA
GTGAATGGAGCAGGAAAGACCACTATATTCAAGATGCTGACAGGAGACATCATTCTTCAAGTGGAACATTCTG
ATCAGAAATAAGACCGGATCTCTGGGTACGTTGATTCTCACAGCTCATTAGTTGGCTACTGTCTCAGGAAGAT
GCCTTAGATGACCTGGTAACCTGTGGAAGAACATTTGTATTTCTATGCCAGGGTACATGGAATTCAGAAAAGGAT
ATTAAAGAACTGTTTATAAACTCCTTAGGAGACTTCACCTGATGCCCTTCAAGGACAGAGCTACCTCTATGTGC
AGTTATGGCACAAAAAGAAAATTATCCACTGCACTGGCCTTGATAGGGAACCTTCCATTCTACTGCTGGATGAG
CCGAGCTCTGGCATGGATCCGAAGTCGAAACGGCACCTCTGGAAGATCATTTCAGAAGAAGTACAGAACAAATGT
TCCGTATCCTCATATCTCACAGCATGGAAGAATGTGAAGCTCTCTGTACCAGGTTGGCCATTATGGTGAATGGA
AAGTTTCAATGTATTGGATCTTTGCAGCACATAAAGAGCAGGTTTGGACGAGGATTTACTGTCAAAGTTCACTTG
AAGAATAACAAAGTGACCATGGAGACCCTCACAAAGTTCATGCAGCTGCACCTTCCAAAAACATACTTAAAAGAT
CAGCACCTCAGCATGCTAGAGTATCATGTACCAGTCACAGCAGGAGGAGTCGAAACATTTTTGATCTGCTGGAA
ACCAACAAGACTGCTTTAAATATTACAAATTTCTTAGTGAGTCAGACCACTCTGGAAGAGGTTTTTCATCACTTT
GCCAAAGACCAGAAGTCTATGAAACTGCTGATACCAGCAGCCAAGGTTCCACTATAAGTGTTGACTCACAGAT
GACCAGATGGAGTCTTAACACTTCCAGCAA

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FIGURE 1122

MFTYIKIITSGSDSNITHVWNEDDGQTLSPSSSLAAQLLILENFEDALLNISANSPIPYLACVRNVTDLSLARGSP
ENLRLLQSTIRFKKSFLRNGSYEDYFPPVPEVLKSKLSQLRNLTELLCESETFSLEKSCQLSDMSFGSLCEESE
FDLQLLEAAELGTEIAASLLYHDNVISKKVRDLLTGDP SKINLNMDQFLEQALQMNYLENITQLIP IIEAMLHVN
NSADASEKPGQLLEMFKNVEELKEDLRRTTGMSNRTIDKLLAIP IPDNRAEII SQVFWLHSCDTNITTPKLEDAM
KEFCNLSLSERSRQSYLIGLTLHLYLNIYNFTYKVFPRKDQKPEKMMELFIRLKEILNQMASGTHPLLDKMRS
LKQMHLP RSVP LTQAMYRSNRMNTPQGSFSTISQALCSQGITTEYLTAMLPSSQRPKGNHTKDFLT YKLTKEQIA
SKYGIPINTTPFCFSLYKDIINMPAGPVIWAFLKPMLLGRILYAPYNPVTKAIMEKSDVTLRQLAELREKSQEW
DKSPLFMNSFHLLNQAIPLQNTLRNPFVQVFKFSVGLDAVELLKQIDELDILRLKLENNIDIIDQLNTLSSLT
VNISSCVLYDRIQA AKTIDEMEREAKRLYKSNELFSGSVIFKLP SNRSWHRGYDSGNVFLPPVIKYTIRMSLKTAQ
TTRSLRTKIWAPGPHNSPSHNQIYGRAFIY LQDSIERAI IELQTGRNSQEIAVQVQAIPYPCFMKDNFLTSVSY
LPVILMVAVVVFIAAFVKKLVYEKDLRLHEYMKMMGVNSCSHFFAWLIESVGFLLVITIVILIIILKFGNIPKTN
GFILFLYFSDSFSVIAMSYLISVFFNNTNIAALIGSLIYIIA FFPFIVLVTVENELSYVLKVFMSLLSPTAFSY
ASQYIARYEEQGIGLQWENMYTSPVQDDTTSFGWLCC LILADSF IYFLIAWYVRNVFPGTYGMAAPWYFPI LPSY
WKERFGCAEVKPEKSNGLMFTNIMQNTNPSASPEYMFSSNIEPEPKDLTVGVALHGVTKIYGSKVAVDNLNLNF
YEGHITSLLGPNAGKTTTISMLTG LFGASAGTIFVYGDKIDTDLHTVRKNMGVCMQHDVLF SYLT TKEHLLLYG
SIKVPHWTKQLHEEVKRTLKDTGLYSHRHKRVGTLSGGMKRKLSISIALIGGSRVILDEPSTGVDP CSRRSIW
DVISKNK TARTIILSTHHLDEAEVLSDR IAFLEQGG LRCCGSPFYLKEAFGDGYHLTLTKKSPNLNANAVCDTM
AVTAMIQSHLPEAYLKEDIGGELVYVLPFFSTKVSGAYLSLLRALDNGMGDLNIGCYGISD TTVEEVFLNLTKES
QKNSAMSLEHLTQKKIGNSNANGISTPDDL SVSSNF TDRDDKILTRGERLDGFG LLLKKIMAILIKRFHHTRRN
WKGLIAQVILPIVFVTTAMGLGTLRNSSNSYPEIQISPSLYGTSEQTAFYANYHPSTEALVSAMWDFPGIDNMCL
NTSDLQCLNKDSLEKWNTSGEPITNFGVCSCSENVQECPKFNYSPPHRTYSSQVIYNLTGQRVENYLISTANEF
VQKRYGGWSFGLPLTKDLRFDITGVPANRTLAKVWYDPEGYHSLPAYLNSLNNFLLRVNMSKYDAARHGIIMYSH
PYPGVQDQEQATISSLIDILVALSILMGYSVTTASFVTVVREHQTAKQLQHISGXGVTCYVVTNF IYDMVFYL
VPVAFSIGIIAIFKLPAFYSENNLGAVSLLLLLFGYATFSWMYLLAGLFHETGMAFIT YVCVNLF FGIN SIVSLS
VVYFLSKEKPNDPTLELISETLKRIFLIFPQFCFGYGLIELSQQSVLD FLKAYGVEYPNETFEMNKL GAMFVAL
VSQGTMFSLRLLINESLIKKLR LFFRKFNSSHVRETIDEDEDVRAERLRVESGAAEFDLVQLYCLTKTYQLIHK
KIIAVNNISIGIPAGECFGLLG VNGAGKTTIFKMLTGDIIPSSGNILIRN

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FIGURE 1123A

TGGCTCAGTTACTCAAAAAGCTCAAGATGACTGCAACAGGGGTGCCTGTTCATCCCACCACTGGTGATCTCCTGGTG
GGCAGGAACACGCAGCTTATGGCTTCTTCTACCTGTGGGCTGAGCAGAGCCCAGAAATACTGCATCCTCAGTTAC
CTGGAGGGGGAACAAAATGCTTCATCTGTGACTCTAGATTTCCATATGATCCGTATGACCAACCAACAGCCAC
ACCATTGAGAATGTCATTGTAAGTTTTGAACCAGACAGAGAAAAGAAATGGTGGCAATCTGAAAATGGTCTTGAT
CATGTGAGCATCAGACTGGACTTAGAGGCATTATTTTCGGTTCAGCCACCTTATCCTGACCTTTAAGACTTTTCGG
CCTGCTGCAATGTTAGTTGAACGTTCCACAGACTATGGACACAACCTGGAAAGTGTTCAAATATTTTGCAAAAGAC
TGTGCCACTTCCTTTCTAACATCACATCTGGCCAGGCCAGGGAGTGGGAGACATTGTTTGTGACTCCAAATAC
TCGGATATTGAACCTCAACAGGTGGAGAGGTTGTTTTAAAGTTTTGGATCCCAGTTTTGAAATTGAAAACCTT
TATAGCCCCCTACATCCAAGACCTTGTGACATTGACAAACCTGAGGATAAACTTTACCAAGCTCCACACCTTGGG
GATGCTTTTGCTTGAAGGAGGCAAAATGATTCCCTTGATAAATACTACTATGCTCTGTACGAGATGATTGTTCCG
GGAAGCTGCTTTTGCAATGGCCATGCTAGCGAATGTCGCCCTATGCAGAAGATGCGGGGAGATGTTTTCAGCCCT
CCTGGAATGGTTTCACGGTCAGTGTGTGTGTGTCAGCACAAATACAGATGGTCCGAACCTGTGAGAGATGCAAGGACTTC
TTCCAGGATGCTCCTTGGAGGCCAGCTGCAGACCTCCAGGACAACGCTTGAGATCGTGCAGCTGTAACAGCCAC
TCCAGCCGCTGTCACTTTGACATGACTACGTACCTGGCAAGCGGTGGCCTCAGCGGGGGCGTGTGTGAAGACTGC
CAGCACAACTGAGGGGCAGCACTGCGACCGCTGCAGACCCCTCTTCTACAGGGACCCGCTCAAGACCATCTCA
GATCCCTACGCGTGCATTGCTGAGTCCCCGGCTTGTGAATGTGACCCCGATGGGACCATATCTGGTGGCATTGT
GTGAGCCACTCTGATCCTGCCTTAGGGTCTGTGGCCGGCCAGTGCCTTTGTAAAGAGAACGTGGAAGGAGCCAAA
TGCGACCAAGTGCAAAACCAACCACTACGGACTAAGCGCCACCGACCCCTGGGCTGCCAGCCCTGCGACTGTAAC
CCCCTTGGGAGTCTGCCATTCTTGACCTGTGATGTGGATACAGGCCAATGCTTGTGCCTGTGCATATGTCACCGGA
GCACACTGCGAAGAATGCATGTTGGATACTGGGGCCTGGGAAATCATCTCCATGGGTGTTCTCCCTGTGACTGT
GATATTGGAGGTGCTTATTCTAACGTGTGCTCACCCAAGAATGGGCAGTGTGAATGCCGCCACATGTCACCTGGC
CGTAGCTGCTCTGAACAGCCCTGGCTACTTCTTTGCTCCTTTGAATTTCTATCTCTACGAGGCAGAGGAAGCC
ACAACACTCCAAGGACTGGCGCCTTTGGGCTCGGAGACGTTTGGCCAGAGTCCCTGCTGTTACAGTTGTTTTAGGA
GAGCCAGTTCTGGGAACCTGTTACATGGACTGGACCTGGATTGCGCAGGGTTCCTCCCTGGGGCTGGCTTGAGA
TTTGCTGTCAACAACATTCCCTTTCTGTGGACTTCACCATGCCATTCACTATGAAACCCAGGTATCCTTTAAC
TCACCAGACTGTCCAGATTGTGGTGAACCCCTGGAGGGAGTGAGCACTGCATACCCAAGACTCTACAGTCAAA
GCCTCAGTCTTTTGCCCTTACCAGCGGCTACGAGAATCATGCTGCTTCCACACCCATCTGTTTGAACAGATGT
ACAATATTCCATAGATGTCTATTTTCTCAGCCTTTGCAAGGAGAGTCCCACGCTCATTACATGTCTTGGTGA
CTCTCTTGGCCTTATTCCCCAAATCAATTATTGGAGAATTTCTGCAGCAAGCAGGACTTAGATGAGTATCAGCT
TCACAACTGTGTTGAAATTGCCTCAGCAATGGGACCTCAAGTGTCTCCCGGTGCCTGTGAAAGGCTGATCATCAG
CATGTCTGCCAAGCTGCATGATGGGGCTGTGGCCTGCAAGTGTACCCCCAGGGCTCAGTCGGATCCAGCTGCAG
CCGACTTGGAGGCCAGTGCCAGTGTAACCTCTTGTGGTGGGGCGCTGCTGTGACAGGTGCTCAACTGGAAGCTA
TGATTTGGGGCATCACGGCTGTACCCCATGTCACTGCCATCCTCAAGGATCAAAGGACACTGTATGTGACCAAGT
AACAGGACAGTGCCCCCTGCCATGGAGAGGTGTCTGGCCGCCGCTGTGATCGCTGCCTGGCAGGCTACTTTGGATT
TCCCAGCTGCCACCTTGCCCTTGTAAATAGGTTTTGCTGAACCTTTGTGATCCTGAGACAGGGTCACTTCAATTG
TGGAGGCTTTTACAACCTGGCAGAACTGTGAAAGGTGATTGATGGTTACTATGGAATCCTTCTTCAGGACAGCC
CTGTGCTCCTTGCCCTGTGTCCAGATGATCCCTCAAGCAATCAGTATTTTGCCATTCTGTATCAGAATCTGTG
GAGCTCAGATGTAATCTGCAATTGTCTTCAAGGTTATACGGGTACTCAGTGTGGAGAATGCTCTACTGGTTTTCTA
TGGAAATCCAAGAATTTAGGAGCACCTTGCCAACCATGTGCCTGCAACAACAACATAGATGTAACCGATCCAGA
GTCCTGCAGCCGGGTAACAGGGGAGTGCCTTCGATGTTTGACAACACTCAGGGCGCAAACCTGCCAGCTCTGCAA
ACCAGGTCACTATGGATCAGCCCTCAATCAGACCTGCAGAAGATGCTCCTGCCATGCTTCCGGCGTGAGTCCCAT
GGAGTGTCCCCCTGGTGGGGGAGCTTGCCCTGTGTGACCCTGTCACTGGTGCATGTCTTGTCTGCCGAATGTCAC
AGGCCTGGCCTGTGACCGTTGTGCTGATGGATACTGGAATCTGGTCCCTGGCAGAGGATCATGTGATTGTAACAG
GGCAGGTACCCAGAAGCCCATCTGTGATCCAGACACAGGCATGTGCCGCTGCCGGGAGGGTGTGAGCGGCCAGAG
ATGTGATCGCTGTGCCCGGGGACACAGCCAGGAATCCCTACTTGTCTTCAATGTCACTTGTGCTTTGATCAGTG
GGACCACACCAATTTCTTCCCTCTCCAAAGCGGTGCAAGGGTTAATGAGACTGGCTGCTAACATGGAAGATAAAAG
AGAGACCTGCCTGTCTGTGAGGCAGACTTCAAAGACCTCAGAGGGAACGTGTCTGAAATAGAAAGGATTTTGAA
ACATCCTGTTTTCCCATCTGGGAAATCTTAAAGTCAAGGATTATCATGACTCTGTTAGAAGACAAATCATGCA

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FIGURE 1123B

GCTAAATGAACAACTGAAAGCAGTGTATGAATTTCAAGATCTGAAAGATACAATAGAAAGAGCAAAGAATGAAGC
AGACCTCTTACTTTGAAGACCTTCAGGAAGAAATTGATTTGCAATCCAGTGTCTTAATGCAAGCATTGCGGACTC
CTCAGAAAACATCAAGAAATATTATCACATATCATCATCTGCTGAAAAGAAAATTAATGAACTAGTTCCACCAT
TAATACCTCTGCAAATACAAGGAATGACTTACTTACCATCTTAGATACTAACCCTCAAAGGAAACTTGTTCATT
GGAAAGATTAAAGCAGATTAAAGATACCAGATATCCAAATATTGAATGAAAAGGTGTGCGGAGATCCAGGAAATGT
GCCATGTGTGCCCTTGCCCTGTGGCGGTGCTCTCTGCACGGGCCGGAAGGGGCACAGGAAGTGTAGGGGTCCCGG
CTGTACGGCTCCCTGACCCTCTCAACGAATGCCCTCCAAAAGCCCAGGAAGCAAAATCCATTATTCGTAATTT
GGACAAACAGGTTTCGTGGGTTGAAAAATCAGATCGAAAGTATAAGTGAACAGGCAGAAGTCTCCAAAAACAATGC
CTTACAGCTGAGGGAAAAAAGTGGGAAATATAAGAAACCAAAGTGAAGTCTGAAGAAGAAAACATCAATCTTTTCAT
CAAAAAAGTGAAAAAAGTCTTTTGTAGAGGAAAACGTGCCTCCAGAAGACATCGAGAAGGTTGCGAATGGTGTGCT
TGACATTACCTACCAATTCATCCCAAAATCTAACCAGTGAAGTTGTCAAAATACAGAAACATATGCAACTCTG
TGAGGATTACAGGACAGATGAAAACAGGTTAAATGAAGAAGCAGATGGAGCCCAAAAGCTTTTGGTGAAGGCCAA
AGCAGCTGAGAAAGCAGCAAAATATTCTATTAAATCTTGACAAAACATTGAACCAGTTACAACAAGCTCAAATCAC
TCAAGGACGGGCAAAAGTCTACCATTACACAGCTGACTGCCAATATAACAAAATAAAAAAGAATGTGCTGCAGGA
ATTTGTTGAGCTGAAAAACAATATGCTATTCTCCAACGTAAGACAAGCACTACAGGACTAACAAAGGAGACATT
AGGAAAAGTTAAACAGCTAAAAGATGCGGCAGAAAAATTGGCTGGAGATACAGAGGCCAAGATAAGAAGAATAAC
AGATTTAGAAAGGAAAAATCCAAGATTTGAATCTAAGTAGACAAGCAAAAGCTGATCAACTGAGAATATTGGAAGA
TCAAGTTGTTGCCATTAAAAATGAAATTGTTGAACAAGAAAAAAATATGCTAGGTGCTATAGCTAGCAGAGTT
AAAGAGCAAAAGCTTGTGCCTTTGTTTCTGGTTTCTGATGTACAAGCCCTGGGGCTCTGTTGAACCTGTGAAAT
ACTGACAATGTCTTCTACCTTCCTTCCCCACACCCTGTCCTTATTAGACACCTGCACAGTGTGGCTGGAGGTTGA
AATGCCACCAGGAAAATGCCACTTCATAATTGAAAGGGGAAAGTAATGAAATTGTCTCTGGTTTCAGAACTTTT
CCTCTTACCTTCCTTTCTCTTCCCTNACTTTTNTATNACAGTTTCCATATTACAAGTAGNTATTTAAGTAAGTAC
TCTACTAACTTATAATCATTTTCAGTCAGATAAACCTAAACATTAAATAAATATCTCCAATATTAGGATGGAATAC
ATATGTATGGCATGTACTAGATTGTCCTATATTTTATGTTTATTTGGATTTGCTTTTATTTGTAAATTTATTCTT
TTCTGAATAAACTGCATACAATTCA

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FIGURE 1124

MKPRYPLTHQTVQIVVNPPGGSEHCIPKTLQSKPQSFALPAATRIMLLPTPICLEPDVQYSIDVYFSQPLQGESH
AHSHVLVDSLGLIPQINSLENFCSKQDLDEYQLHNCVEIASAMGPQVLPGACERLIISMSAKLHDGAVACKCHPQ
GSVGSSCSRLGGQCQCKPLVVGRCDCRSTGSDYDLGHHGCHPCHCHPQGSKDTVCDQVTGQCPCHEVSGRRCDR
CLAGYFGFPSPCHPCPCNRFAELCDPETGSCFNCGGFTTGRNCERCIDGYGNPSSGQPCRPLCPDDPSSNQYFA
HSCYQNLWSSDVICNCLQGYTGTQCGECSTGFYGNPRISGAPCQPCACNNNIDVTDPECSRVTGECRLCLHNTQ
GANCQLCKPGHYGSALNQTCCRCSCHASGVSPMECPPGGGACLCDPVTGACPCLPNVTGLACDRCADGYWNLVPG
RGSCDCNRAGTQKPICDPDTGMCRCREGVSGQRCDRCARGHSQEFPTCLQCHLCFDQWDHTISSLSKAVQGLMRL
AANMEDKRETLPVCEADFKDLRGNVSEIERILKHPVFPSPGKFLKVKDYHDSVRRQIMQLNEQLKAVYEFQDLKDT
IERAKNEADLLLEDLQEEIDLQSSVLNASIADSSSENIKKYYHISSSAEKKINETSSTINTSANTRNDLLTILDTL
TSKGNLSLERLKQIKIPDIQILNEKVCGDPGNVPCVPLPCGGALCTGRKGHRKCRGPGCHGSLTLSTNALQKAQE
AKSIIRNLDKQVRGLKNQIESISEQAEVSKNNALQLREKLGNI RNQSDSEENINLFIKKVKNFLLEENVPPEDI
EKVANGVLDIHLPIPSQNLTDLVKIQKHMQLCEDYRTDENRLNEEADGAQKLLVKAKAAEKAANILLNLDKTLN
QLQQAQITQGRANSTITQLTANITKIKKNVLQEFVELKKQYAILQRKTSTTGLTKETLGKVKQLKDAAEKLADGT
EAKIRRITDLERKIQDLNLSRQAKADQLRILEQDVVAIKNEIVEQEKKYARCYS

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FIGURE 1125

GGTACATAAGATCCATTAGGTTTGAGCTGTGTTGACTACCACTGCTTTTTTCCTTGGTCTCACTTACGTCTTGGAA
GATGGCTCTGCAGATCCCTGGAGGCTTTTGGGCAGCAGCTGTGACCGTGATGCTGGTGATGCTGAGCACCCAGT
GGCTGAGGCCAGAGACTTTCCCAAGGATTTCTTGGTCCAGTTTAAGGGCATGTGCTACTTCACCAACGGGACAGA
GCGCGTGCGGGGTGTGGCCAGATACATCTATAACCGCGAGGAGTACGGGCGCTTCGACAGCGACGTTGGGGAGTT
CCAGGCGGTGACCGAGCTGGGGCGGAGCATCGAGGACTGGAACAACCTATAAGGACTTCTTGAGCAGGAGCGGGC
CGCGGTGGACAAGGTGTGCAGACACAACCTACGAGGCGGAGCTACGCACGACCTTGACGCGGCAAGTGGAGCCAC
AGTGACCATCTCCCCATCCAGGACAGAGGCCCTCAACCACCACAACCTGCTGGTCTGCTCAGTGACAGATTCTA
TCCAGCCCAGATCAAAGTCCAGTGGTTTTCGGAATGACCAGGAGGAGACAGCCGGTGTGTGTCCACCTCCTTCAT
TAGGAATGGTGACTGGACCTTCCAGATTCTGGTGATGCTGGAAATAACTCCCCAGCGTGAGACATCTACACCTG
CCAAGTGGAGCACCCAGCCTCCAGAGCCCCATCACCTGGAGTGCGGACCTCGAGGGCCTCCACCAGCAGGACT
CCTGCACCTGACTCCTGAGGACTTTTGTCTGGGATTGGTCATCACTCTTCTGTAATGCCACCTGCCCTGCCAG
AATTCCTAGCTGCCTGTGTATCCTGTCCCACTGAGGTCAGAGTCCTACAGTGGCTCATGCAGCCACAGGTCACC
TTCTGTGATCCCCATCCCAAGGCACTGGCGGTGACTCTGCTTCCTGCACTGACCCAGAGCCTCTGCCTGTGCACT
GCAAGCTGTGTCTACTCAGGCCCCAAGGGGCATCTCTGTTTCCATTCTCCCCCACAGACCTGTCAAGAGAAGCA
TGACAAACAAAATCATTACCTGACTTTAGTGCTTTTTCCATAATTAAACCTGATTCTGAGTTAAAAAAGATA
AATAATATAGATAAAAAAGGCGCCTGTGAGCCTTTCCACCGGGGATTATTCGGGGCGGGTACTAGGGGGGGGTTAG
AGTTTCGTAATAGTTGTGTGTGCGGTGGCTCTGGGGGGGGCTGAACAAATCCCCGAAGTGGGTGTATTAGGGGGCA
ACGGGGCGTTTTAAACTCGGAGTGGGAAACTGGGTGTTACCAATAATGCCTTTGGGGTTCCTCTTTGNCAGC
CNATCNINGGAGGAGATGACTGTGGATCTTTGTGCGGTGTAAATTAGGTGTTGAGACATGGATGTTGAGTGTGT
AGCGTGTGTTTGTATAATAGTT

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FIGURE 1126

MALQIPGGFWAAAVTVMLVMLSTPVAEARDFPKDFLVQFKGMCYFTNGTERVRGVARYIYNREEYGRFDSVDGEF
QAVTELGRSIEDWNNYKDFLEQERAADVCKVRHNYEAE LR TTLQRQVEPTVTISPSRTEALNHHNLLVCSVTDFY
PAQIKVQWFRNDQEETAGVVSTSFIRNGDWTFQILVMLEITPQRGDIYTCQVEHPSLQSPITLEWRPRGPPAGL
LH

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FIGURE 1127

GTGAAAGAGCAGGTTCTGCTTCTTTGGTGTAGTCCTGAAGCTTCCTAAGAACTTCACATCAGGTGATGGATAGG
AGCAACCCTGTAAAACCAGCCTTAGACTATTTTTCAAACAGGCTGGTGAATTACCAGATCTCCGTCAAGTGCAGT
AACCAGTTCAAGTTGGAAGTGTGTCTTTTGAATGCAGAAAACAAAGTCGTGGACAACCAGGCTGGGACCCAGGGC
CAGCTGAAGGTGCTGGGTGCCAACCTCTGGTGGCCGTACCTGATGCACGAACACCCCGCCTACCTGTACTCGTGG
GAGGATGGTGATTGCTCACACCAAAGCCTTGGACCCCTCCCAGCCTGTGACCTTTGTGACCAACTCCACCTACGC
AGCAGACAAGGGGGCTCTGTATGTGGATGTGATCCGTGTGAACGGCTACTACTCTTGGTATCGCAACTACGGGCA
CCTGGAGTTGATTTCAGCTGCAGCTGGCCGCCCAGTTTGAGAATTGGTGTAAAGACATCACAATCCCATTATTTCAGA
GCGCGTATGGAGTGGAAACGCTTGTAGGGTTTACCAGGTAAGCGGTGTTGAACCTTTCTGCTTGTGTATTCTCTC
TGGGCAGAGATGCCACTTGCCTCCCCACCATGCCATCTCTGAAGAATATTACAGACCATTTTGGAGCATGGTGA
ATAAGAAATTTTACCTTAGGAGTTTCAGTTGAATAGTCATTTTTATATTTGTGACTGCAAGTCACCTTTAGGGGC
TGTAATTCCTTAGTACTGGTAGCATTATTATCCAATGGACTTTTATAGCTTTTCATTAGGTTTTCTTTTGTTTTG
TTCTTTAAAGAACGTTTTACTTATCTTAGTATTTTCATTTTTCATCTATATTATGAGGCAGTAAGAGTCTTCTGTT
TTTCCAAAGTTGAGACTGCTTTATATTTATTTTCGTATTGTCTACAGCTGTAGTGTTCAATACATTAGCCACTAGC
CACATGTGGTTATTTAAATAAGATAAAATAAAAAATTGGCCGGGCGTGGTGGGTCACGCCGGTAATCCCAGCACTT
TGGGAGGCCGAGGCGGGCAGATCATTAGGTCAGGAGATCGAGACCATCCTTACTAAGACGGTGAACCCCATCTC
TATTAATAATACAAAAAATTAGCCGGGCGTGGTGGCGGGCGCCTGCAGTCCCAGCTACTCAGGAGGCTGAGGCAG
GAGAATGGCGTGAACCTGGGAGGCAGAGTTTGCAGTGAGCCGAGATGGCGCCACTGCACTCCAGCCTGGGGACAG
AGCGAGACTCCATCTCAAAA

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FIGURE 1128

MDRSNPVKPALDYFSNRLVNYQISVKCSNQFKLEVCLLNAENKVVDNQAGTQGQLKVLGANLWWPYLMHEHPAYL
YSWEDGDGCSHQSLGPLPACDLCDQLHLRSRQGGSVCGCDPCERLLLLVSQLRAPGVDSAAAGRPV

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FIGURE 1129A

GCCCCAAACCCGGAAGTGAGCGGCGGCAGCTGCGAGGCTCGGAGAAACAGGCGCCGCGGGCTCCGCGCCCCGGCCG
GACCCGGGCCCCGAGATCATGATGCTGCCGCCACCGCCGCCACCACGGAGCGAGAAGCCCAGATAGACGCCCCGGC
GGCCCCGGGTCTTGAGTCCCGCCGCCTGCTGCCCGGCGGAGGACCCACCCCGCCTGCCGCCCCG**ATG**CTTGACG
TGGGGCCCCGCATGGACAGGGATTACCCGCAGCATGAACCCCGCGCGGGCAGCCTCCTGTACAGCCCGCCGC
CCCTGCAGAGCGCCATGCTGCACTGCCCCTACTGGAACACCTTCTCGCTGCCGCCATACCCTGCCTTCTCCAGCG
ACAGCCGCCCCGTTTCATGAGCTCCGCCTCCTTCTCGGCAGCCAGCCCTGCCAGACACCAGCTATGCCCCCGTGG
CCACCGCCTCCAGCTTGCCACCAAAGACCTGCGACTTTGCTCAGGACTCCTCCTATTTTGGAGACTTCTCCAACA
TCTCCATCTTCTCCTCGTCCGTGGACTCCCTGTCGGACATCGTGGACACGCCCCGACTTCTCGCGGCTGACAGCC
TCAACCAGGTGTCCACCATCTGGGACGATAACCCCTGCCCCCTCCACCCACGATAAGCTGTTCCAGCTCAGCAGGC
CGTTTGAGGCTTCGAGGACTTTCTGCCCTCCCACAGCACCCCGCTTCTCGTCAGCTACCAGGAGCAGAGTGTGC
AGAGCCAGCCAGAGGAGGAGGACGAGGCTGAGGAGGAGGAGGCGGAGGAGCTGGGGCACACAGAGACCTACGCCG
ACTACGTGCCGTCCAAGTCCAAGATCGGGAAGCAGCACCCAGACCGCGTGGTGGAGACCAGCACACTGTCCAGCG
TCCCACCCCCAGACATCACCTACACCCTGGCCCTGCCCTCGGACAGCGGGGCCCTGTCTGCCCTGCAGTAGAGG
CCATCACCTACGCCTGCCAGCAACACGAGGTCTGCTCCCAGCGGGCAGCGCGCGGGCTTTCTCATCGGCGATG
GGGCCGGCGTGGGCAAAGGCCGGACGGTGGCCGGAGTCATCCTGGAGAACCACCTGCGCGGCCGGAAGAAAGCAT
TGTGGTTTCAGCGTCTCCAACGACCTCAAGTACGATGCGGAGCGCGACCTGCGGGACATCGAAGCCACGGGCATCG
CGGTGCACGCGCTCAGCAAGATCAAGTACGGTGACACCACTACCTCAGAGGGCGTCTCTTCGCCACCTACTCCG
CCCTGATTGGGGAGAGCCAGGCCGGTGGCCAGCACCGCACTCGCCTCCGGCAGATCCTGGACTGGTGTGGGGAGG
CCTTTGAGGGCGTCATCGTGTTCGACGAGTGTACAAAGCCAAGAATGCCGGCTCCACCAAGATGGGCAAGGCCG
TGCTAGACCTGCAGAACAAGCTGCCCTGGCCCGCGTGGTCTACGCCAGCGCCACAGGTGCCTCTGAGCCTCGGA
ACATGATCTACATGAGCCGCTTGGGTATCTGGGGCGAGGGCACACCCTTCCGGAACTTTGAGGAGTCTCTGCACG
CCATCGAGAAGAGGGGCGTTGGCGCCATGGAGATCGTGGCCATGGACATGAAGGTGAGCGGCATGTACATCGCAC
GCCAGCTCAGCTTCTCCGGCGTCACCTTCCGCATCGAGGAGATCCCGTGGCCCCAGCCTTCGAGTGCCTCTACA
ACCGCGCAGCCCTGCTGTGGGCCGAGGCCCTGAACGTGTTCCAGCAGGCGGCGGACTGGATCGGCCTGGAGTCGC
GCAAGTCCCTGTGGGGCCAGTTCTGGTCCGCACACCAGCGCTTCTTCAAGTATCTGTGCATCGCAGCCAAGGTGC
GCCGGCTGGTGGAGCTGGCCCGAGAGGAGCTGGCGCGAGACAAGTGCCTGGTTCATCGGGCTGCAGTCCACGGGCG
AGGCGCGCACGCGGGAGGTGCTGGGGGAGAACGATGGGCACCTCAACTGCTTCTCGTCTCGGCCGCTGAAGGCGTGT
TCCTGTCTGCTAATTGAGAACACTTTCCTGCCACCAAGAGAAAGCGGGACAGAGGAGCGGGCAGCAAGCGGAAAC
GGCGACCTCGGGGACGCGGGGCCAAAGCCCCCGGCTGGCGTGCAGACAGCGGGCGTCATCCGCATCAGTGACG
ACAGCAGCACGGAGTCGGACCCTGGCCTGGACAGCGACTTCAACTCCTCCCCGAGTCCCTGGTGGATGACGACG
TTGTTCATCGTTGATGCAGTCGGGCTCCCCAGTGACGACCGGGGATCCCTGTGCCTCCTGCAGAGAGACCCGCATG
GCCCCGGGGTCTTGAGCGGGTGGAGCGGCTGAAGCAGGATCTGCTGGACAAAGTGCGCCGGCTGGGCCGGGAAC
TGCCAGTCAACACCCTGGACGAGCTCATCGACCAGCTGGGCGGGCCCCAGCGGGTGGCGGAGATGACCGGCAGGA
AAGGCCGCGTGGTGTCCAGGCCCGACGGGACGGTGGCCTTCGAGTCGCGGGCAGAGCAGGGTCTGTCCATCGACC
ACGTGAACCTCAGGGAGAAAGCAGCGCTTCATGAGCGGCGAGAAGCTCGTGGCCATCATCTCGGAGGCCTCCAGCT
CGGGTGTCTCCCTCCAAGCCGACCGCCGTGTCCAGAACCAGCGGCGCCGCGTGCACATGACCTTGGAGCTGCCGT
GGAGCGCCGACCGCGCCATCCAGCAGTTCGGCCGCACCCACCGGTCCAACCAGGTCTCCGCGCCAGAGTATGTCT
TCCTCATCTCGGAGCTGGCCGGGAGCGCCGGTTTCGCTCCATCGTGGCCAAGCGCCTGGAGAGTCTGGGGGGCC
TGACCCACGGAGACCGCCGCGCCACGGAGTCCCGTGACCTCAGCAAGTACAACCTTTGAGAACAAGTATGGCACCC
GGGCCCTGCAGTGTGTCTCACCACCATCCTGAGCCAGACTGAGAACAAGTGCCTGTGCCCCAGGGATACCCTG
GAGGGGTCCCCACCTTCTTCCGGGACATGAAGCAGGGCCTGCTGTCTGTGGGCATTGGTGGCCGGGAGTCCCGGA
ATGGCTGCCTGGACGTGGAGAAGGACTGTTCCATACCAAGTTCTGAACCGCATCCTGGGGCTGGAGGTGCACA
AGCAGAATGCCCTGTTCCAGTACTTCTCAGACACCTTCGACCACCTCATCGAGATGGACAAGCGGGAGGGCAAAT
ACGACATGGGCATCCTGGACCTTGCTCCCGGTATCGAGGAGATCTACGAGGAGAGCCAGCAGGTGTTCTGGCTC
CCGGGACCCGACGAGACGGGACGGTGGTCTTCTACAAGATCAGCGTGGACCGCGGCTGAAGTGGGAGGACGCCT
TTGCCAAGTCGCTGGCGTGACGGGCCCTATGACGGCTTCTACCTCTCCTACAAGGTCCGCGGTAACAAGCCCA
GCTGCCTGCTGGCGGAGCAGAACCGCGGCCAGTTCTTACGGTGTACAAGCCCAACATCGGCCGGCAGAGCCAGC
TGGAGGCCCTGGACAGCCTCCGCCGCAAGTTCCACCGGGTACCGCGGAGGAGGCCAAGGAGCCCTGGGAGAGTG

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FIGURE 1129B

GCTACGCTTTGTCGCTGACGCACTGCAGCCACAGCGCCTGGAACCGGCACTGCCGGCTGGCGCAGGAGGGTAAGG
ACTGCCTGCAGGGGCTGCGGCTGCGGCACCACTACATGCTGTGCGGCGCGCTGCTGCGCGTGTGGGGCCGCATCG
CCGCCGTGATGGCCGACGTGAGCAGCAGCAGCTACCTGCAGATCGTGCGGCTGAAGACCAAGGACAGGAAGAAGC
AAGTGGGCATCAAGATCCCCGAGGGCTGCGTGCGCCGGGTGCTGCAGGAGCTGCGGCTGATGGATGCGGACGTGA
AGCGCAGGCAGGCGCCCGCCCTGGGCTGCCCCGCCCCGCCCCGCCCCGCGCCGCTGGCGCTGCCTTGCGGCCCG
GAGAGGTGCTGGACCTCACCTACAGCCCCCGGCCGAGGCCTTCCCGCCGCCCCGCACTTCTCTTTCCCGGCGC
CGCTGTCCCTGGACGCCGGCCCCGGCGTCTGTCCGCTGGGCACCCCCGACGCCAGGCCGACCCTGCGGCCCTCG
CGCACCAGGGCTGCGACATCAACTTCAAGGAGGTGCTGGAGGACATGCTGCGCTCGCTGCACGCGGGGCCGCCCT
CCGAGGGCGCGCTGGGGGAGGGCGCGGGGGCGGGGGCGCGGCGGGCGGTGGTCCCGAGCGGCAGAGCGTGATCC
AGTTCAGCCCACCCCTTCCCCGGCGCCCAGGCTCCTCTCTTGACACGCTTTAGGCGAAACATGCCCCAAGACACAG
GGACCCTTTCTCCCTAGGAGCAGCGGTGGGGAGCAGGGCCAAGGTCCCCTGACCACTGCTCAGAGGAGCCCTAG
GCCCTGGCCGCACTGCCCTTACGCGCCGACCCGGGCCCCACCTGGTCAGCCCTGGCGGGGCCCACTCAGGACAG
CTGGGGGCCGGGGCGTGGCAGGGCCCTCTCTGTGCCTCTCCTCCTAAGTAGGAAGGGGCTCCGGGTGGCTGCTCT
GGGACTGGGCACCCACAAGGGCTCAGTGGGCCCAAACCCCTGAAATCCGTGAAACCGGGTGGTCCCAAGAGCTAG
AAACTCAGGAAACCCAGGTGCTCAGGGCCCCGCGTCTCGGGGGCTCCGTGGGGCAGACCCCTGCTAATATATGC
AATTCTCCCTCCCCCAGCCCTTCCCTGACCCCTAAGTTATTGCCCCGCTCACCTCTCCAGGCCCCAGGCCGCGGA
GCTGGCAGGGTGGCGCCTGCGGTTTCTATGTATTTATAGCAAGTTCTGATGTACATATGTAAAGGACTTTTTTAA
AT

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FIGURE 1130

MLAVGPAMDRDYPQHEPPPAGSLLYSPPPLQSAMLHCPYWNTFSLPPYPAFSSDSRPFMSSASFLGSQPCPDTSY
APVATASSLPPKTCDFADSSSYFEDFSNISIFSSSSVDSLSDIVDTPDFLPADSLNQVSTIWDDNPAPSTHDKLFQ
LSRPFAGFEDFLPSHSTPLLVSYYEQSVQSQPEEEDAEAAAAEELGHTTETYADYVPSKSKIGKQHPDRVETST
LSSVPPPDITYTLALPSDSGALSALQLEAITYACQQHEVLLPSGQRAGFLIGDGAGVGKGRTVAGVILENHLRGR
KKALWFSVSNLDKYDAERDLRDIEATGIAVHALSKIKYGDTTTSEGVLFATYSALIGESQAGGQHRTRLRQILDW
CGEAFEGVIVFDECHKAKNAGSTKMKGAVLDLQNKLPARVVYASATGASEPRNMIYMSRLGIWGEFTPFRNFEE
FLHAIEKRGVGAMEIVAMDMKVSGMYIARQLSFSGVTFRIEEIPLAPAFECVYNRAALLWAEALNVFQQAADWIG
LESRKSLWGQFWSAHQRFFKYLCIAAKVRRRLVELAREELARDKCVVIGLQSTGEARTREVLGENDGHLNCFVSAA
EGVFLSLIQKHFPSTKRKRDRGAGSKRKRPRGRGAKAPRLACETAGVIRISDDSSSTESDPGLDSDFNSSPESLV
DDDVVIVDAVGLP SDDRGS LCLLQRDPHGPGVLERVERLKQDLLDKVRRLGREL PVNTLDELIDQLGGPQRVAEM
TGRKGRVVS RPDGT VAFESRAEQGLSIDHVNLRKQRFMSGEKLVAI I SEASSGVSLQADRRVQNQRRRVHMTL
ELPWSADRAIQQFGRTHRSNQVSAPEYVFLISELAGERRFASIVAKRLESLGALTHGDRRATESRDL SKYNFENK
YGTRALHCVLT TILSQ TENKVPVPQGYPGGVPTFFRDMKQGLLSVGIGGRESRNGCLDVEKDCSI TKFLNRILGL
EVHKQNALFQYFSDTFDHLIEMDKREGKYDMGILD LAPGIEEIYEESSQVFLAPGHPQDGQVVFYKISVDRGLKW
EDAFAKSLALTGPYDGFYLSYKVRGNKPSCLLAEQNRGQFFTVYKPNIGRQSQLEALDSLRRKFHRVTAEAEAKEP
WESGYALSLTHCSHSAWNRHCRLAQEGKDCLOGLRLRHHYMLCGALLRVWGRIA AVMADVSSSSYLQIVRLKTKD
RKKQVGIKIPEGCVRRVLQELRLMDADV KRRQAPALGCPAPPAPRPLALPCGPGEVLDLTYSPPAEAFPPPPHFS
FPAPLSLDAGPGVVPLGTPDAQADPAALAHQGC DINFKEVLEDMLRSLHAGPPSEGALGEGAGAGGAAGGGPERQ
SVIQFSPPFPGAQAPL

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FIGURE 1131

AAGAACCAAATGTTATAAATATTTGCTGAAGTTTATACATTTTAATCTGCATTAAGGTAATGGTTAGTTGGTCAA
TGCTGCCTCTGCCTCAGTCTGCAGCGAGAACATTGTGTTTTTCATTTGGTAAATACAGTTGAGCATCCACCGGNGT
NNCAAGTGGCTGGTATTAGGTGCTAAGGATGCAGGGGTGAACAAAACAGGCCCTGCCTCCATGCAATTCTCATT
CTCTGGGTGGCACAGTTTTATGCAAGTTATCACATGTGAAAGAATTTATAGTTTTTATTATGCAAGTTTTCAAAT
AAATCCAATTGCTGTTATCTTTTGTTTTTCATGGAATATCTCGCATCTCAGAACACAGTTTGGGAATCATATTTT
ATTTAGTGTTTTCAGATGCTATCTATTATATCTAAGATATTTACATTTAGCCATTCGTTTTATAAAAACTCCA
GGCAAACCTCAGCTGGACTTTTCTTGCTTTAATAACAGCTTTATTGAGGATACAATTCACATATCTACGAAATTCT
TTTTAAAAATTTTACACGTTTCAGGCCGGGCGCGGTGGCTCATGCC

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FIGURE 1132

MQFSFSGWHSFMQVITCERIYSFYASQINPIAVIFCFSWNISHLRTQFGNHILFSVFRCYLLYLRYFTFSHSF
YKKLQANSAGLFLNNSFIEDTIHISTKFFLKILHVQAGRGGSC

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FIGURE 1133

GGCACGAGGGGAAGACCTCCTGTCTATCAGGCCCTCCCCATGGCTTTAGAGACGATCTGCCGACCCTCTGGGAG
AAAATCCAGCAAGATGCAAGCCTTCAGAATCTGGGATGTTAACCAGAAGACCTTCTATCTGAGGAACAACCAACT
AGTTGCCGGATACTTGCAAGGACCAATGTCAATTTAGAAAGAAAAGATAGATGTGGTACCCATTGAGCCTCATGC
TCTGTTCTTGGAATCCATGGAGGGAAGATGTGCCTGTCTGTGTCAAGTCTGGTGATGAGACCAGACTCCAGCT
GGAGGCAGTTAACATCACTGACCTGAGCGAGAACAGAAAGCAGGACAAGCGCTTCGCCTTCATCCGCTCAGACAG
TGGCCCCACCACCACTTTTGAGTCTGCCGCCTGCCCCGGTTGGTTCTCTGCACAGCGATGGAAGCTGACCAGCC
CGTCAGCCTCACCAATATGCCTGACGAAGGCGTCATGGTCACCAAATCTACTTCCAGGAGGACGAGTAGTACTG
CCCAGGCCTGCCTGTTCCCATTTCTTGATGGCAAGGACTGCAGGGACTGCCAGTCCCCCTGCCCCAGGGCTCCCG
GCTATGGGGGCACTGAGGACCAGCCATTGAGGGGTGGACCCTCAGAAGGCGTCACAACAACCTGGTCACAGGACT
CTGCCTCCTCTTCAACTGACCAGCCTCCATGCTGCCTCCAGAATGGTCTTTCTAATGTGTGAATCAGAGCACAGC
AGCCCCTGCAAAAGCCCTTCCATGTGCCTCTGCATTAGGATCAAACCCCGACCACCTGCCAACCTGCTCTC
CTCTTGCCACTGCCCTCTTCTCCTCATTCCACCTTCCCATGCCCTGGATCCATCAGGCCACTTGATGACCCCCA
ACCAAGTGGCTCCACACCCTGTTTTACAAAAAAGAAAAGACCAGTCCATGAGGGAGGTTTTTAAGGGTTTGTGG
AAAATGAAAATTAGGATTTTCATGATTTTTTTTTTTTTCAGTCCCCGTGAAGGAGAGCCCTTCATTTGGAGATTATGT
TCTTTCGGGGAGAGGCTGAGGACTTAAATATTCCTGCATTTGTGAAATGATGGTGAAAGTAAGTGGTAGCTTTT
CCCTTCTTTTTCTTCTTTTTTTGTGATGTCCCAACTTGTAATAATTAAGTTATGGTACTATGTTAGCCCCATA
ATTTTTTTTTTCTTTTAAACACTTCCATAATCTGGACTCCTCTGTCCAGGCACTGCTGCCCAGCCTCCAAGCT
CCATCTCCACTCCAGATTTTTTACAGCTGCCTGCAGTACTTTACCTCCTATCAGAAGTTTCTCAGCTCCCAAGGC
TCTGAGCAAATGTGGCTCCTGGGGGTTCTTTCTTCTCTGCTGAAGGAATAAATTGCTCCTTGACATTGTAGAGC
TTCTGGCACTTGGAGACTTGTATGAAAGATGGCTGTGCCTCTGCCTGTCTCCCCACCAGGCTGGGAGCTCTGCA
GAGCAGGAAACATGACTCGTATATGTCTCAGGTCCCTGCAGGGCCAAGCACCTAGCCTCGCTCTTGGCAGGTACT
CAGCGAATGAATGCTGTATATGTTGGGTGCAAAGTTCCCTACTTCTGTGACTTCAGCTCTGTTTTACAATAAAA
TCTTGAAATGCCTAAA

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FIGURE 1134

MALETICRPSGRKSSKMQAFRIWDVNQKTFYLRNNQLVAGYLQGNVNLEEKIDVVP IEPHALFLGIHGGKMCLS
CVKSGDETRLQLEAVNITDLSENRKQDKRFAFIRSDSGPTTSFESAACPGWFLCTAMEADQPVSLTNMPDEGVMV
TKFYFQEDE

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FIGURE 1135

GCCATTCTCTCACATCCCGTGC GGTCAGGAAGCCCTTCCTGAACTCTGACTTCAGTTCTTGCTGCGGTTTCTGCC
CATTTTTTTCATATCCTCTGACAGCTGCGAGGTCACTCTGCTCTGGCTTTTCTCCAAGCAGAACAAGTGGGGGC
TCTGGAAAGGTTAAGGGACCTCAGTGGCCACCATTATACTTTGCATCTTTCTGAGAAGTGAGAGTTGAAAGGGA
AGCAGGAAGGCCCATGGTCAGATTGAAGGAAGGACTTTTTAGTTTTCTTTTTTTTTTTTTTTTGAAATGGAGTCTCGC
TCTGTCAATTAGGCTGGAGTGCAGTGGTGCATCTCAGCTCACTGCAGCCTCCACTTCCTGGGTTCACATGATTCT
TCCTGCCTCAGCCTCCCAAGTAGCTGAGACTACAGGCACATGCCACTACACCCAGCTAACTTTTGTATTTTTAGT
AGAGACGGGGTTTACCATGTTGGCCAGGCTGGTCTCAAAGTCTAAGTCAAGTGAATGCTCCCTCAGCCTC
CCAAAGTGCTGGGATTACCGGTATGAACCACCACAACCTGCCAGGAATTTTTAGTTTTTAGCTTTTGCAGGAGAC
TTCAAGGAAAGGAGACATTCTCTGTCCAGGAAACGGGTAAGGGGACCATTCTGCATTGCTGGTTTCCCTCTT
GGCAGGGTGGGCATGAGGCATCACTGTTCTGCTCCCTCACTCCTGCTCCTCATGCTCAGCCTGCCAGCTCGGCC
TCAACTTTGTGTGTCTAAAGTGGAACTGAATAGTAGCTGTGAGAAGATAGGAAAGAGGTAGTGCCAAATCTCCTTG
CCCAGATCATAAATCCAGACTCAGCAGGGTAACCACATGGGCAAGCACAAAGGTAGGTGCTTGGGGAAAGGGGAAG
TAATTGGCATTCTGTGTGATACCAAGGAGACCATTGGATTGGCTTCTACCAAAGAGAATGGAGAATTGGTTG
ACCTAAATGGAACCACTCCCTTTAAGTAAGGGGAGGAAAGGGGGTGTGGAAGATGGCCCTCTTCCACCACCTA
GATCATAGCTTGAAGTGAAGCCAGGACAGAGTGTGCCCCCTTCGGCATTACTGATGTGCCCTCTTTAAATCA
TGATGTTATCTAACCCAAACCCAGACCCAGGACCTAGTCACAGCTCCAACCTACACTTCCTATTAATCTTAAAC
AAAGCGAAACAAACACAAAAGATATCAGCATTGTAGCCTCCAATCTGAGCCCATTCCCTTCTCTGGCTACCAT
ACCTCCTTCTCCTATATGATACATTCACTACTTTGTTCAATTATCCAGTCTAGACCTGCATCTTGAGGCCACAC
CCAGCCTTCTCACTCCCCACACCCCTCTTTCTCTCTCACTGCTCCTTCCTGGTCTCTTCTCATCTGGCCCCACC
TCTAAGGAGTCTCCTGCTTCTGGGTGCGCTGGAAAACAGACTATCCCCCTCCTAGTGAAGGGAGTGGGTAG
GGGTTTCAGCCCCACCCTCAGGAAGATGCGTCTTCCCTGTCTCTGCTCTGTGGTACTTCTCTCTGGCTGATTT
AGCAAACAGCACCTAGACCTGGGGCCAGGCCTTTGGCAGTGGGACAGATCCAGGGATAGGCTACACCACCCTGCC
CTGACCCTGGGATTGGCATCAGCTTCCAACAGTTCTGCCAAAGCTTGTAAGTCTCCCGACGGCCATGAACAC
TACATCTTCTGCAGCACCCCCCTCACTAGGTGTAGAGTTCATCTCTCTGCTGGCTATCATCCTGCTGTCAGTGGC
GCTGGCTGTGGGGCTTCCCGGCAACAGCTTTGTGGTGTGGAGTATCCTGAAAAGGATGCAGAAGCGCTCTGTAC
TGCCCTGATGGTGTGAACCTGGCCCTGGCCGACCTGGCCGTATTGCTCACTGCTCCCTTTTTCTTCACTTCCT
GGCCCAAGGCACCTGGAGTTTTGGACTGGCTGGTTGCCGCTGTGTCACTATGTCTGCGGAGTCAGCATGTACGC
CAGCGTCTGCTTATCACGGCCATGAGTCTAGACCGCTCACTGGCGGTGGCCCCGCCCTTTGTGTCCAGAAGCT
ACGCACCAAGGCGATGGCCCGGCGGGTGTGGCAGGCATCTGGGTGTTGTCTTTCTGCTGGCCACACCGTCTCT
CGCGTACCGCACAGTAGTGGCCCTGGAAAACGAACATGAGCCTGTGCTTCCCGCGGTACCCAGCGAAGGGCACCG
GGCCTTCCATCTAATCTTCGAGGCTGTACGGGCTTCTGCTGCCCTTCTGGCTGTGGTGGCCAGCTACTCGGA
CATAGGGCGTTCGGCTACAGGCCCGGCGCTTCCGCGCAGCCGCCGACCGGCCGCGCTGGTGGTGTCTCATCATCT
GACCTTCGCCGCTTCTGGCTGCCCTACCACGTGGTGAACCTGGCTGAGGCGGGCGCGCGCTGGCCGGCCAGGC
CGCCGGGTTAGGGCTCGTGGGGAAGCGGCTGAGCCTGGCCCGCAACGTGCTCATCGCACTCGCCTTCTGAGCAG
CAGCGTGAACCCCGTGTGTACGCGTGCGCCGCGCGGCGGCTGCTGCGCTCGGCGGGCGTGGGCTTCGTGCGCAA
GCTGCTGGAGGGCACGGGTTCCGAGGCGTCCAGCACGCGCGCGGGGGCAGCCTGGGCCAGACCGCTAGGAGCGG
CCCCGCCGCTCTGGAGCCCGGCCCTTCCGAGAGCCTCACTGCCTCCAGCCCTCTCAAGTTAAACGAAGTGAAGTAA
GGCCTGGTGGAGGAGGCGCACTTCTCTGCGAGAATGCTAGCTCTGAGCCAGTTCAGTACCTGGAGGAGGAG
CAGGGGCGTGGAGGGCGTGGAGGGCGTGGAGGCGGGAGTGGAGTGGAGAAGAGGGAGAGATGGAG
CAAAGTGAGGGCCGAGTGAGAGCGTGTCCAGCCTGGCTCCACAGGCAGCTTTAACCATTAAACTGAAGTCTG
AA

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FIGURE 1136

MNTTSSAAPPSLGVEFISLLAIILLSVALAVGLPGNSFVVWSILKRMQKRSVTALMVLNLALADLAVLLTAPFFL
HFLAQGTWSFGLAGCRLCHYVCGVSMYASVLLITAMSLDRSLAVARPFVSQKLRTKAMARRVLGIWVLSFLLAT
PVLAYRTVVPWKTNMSLCFPRYPSEGHRAFHLLIFEAVTGFLLPFLAVVASYS DIGRRLQARRFRRSRRTGRLVVL
IILTFAAFWLPYHVVNLAEAGRALAGQAAGLGLVGKRLSLARNVLI ALAFLSSSVNPVLYACAGGGLLRSAGVGF
VAKLLEGTGSEASSTRGGSLGQTARSGPAALEPGPSESLTASSPLKLNELN

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FIGURE 1137

GTGGGCGGACCGCGCGGCTGGAGGTGTGAGGATCCGAACCCAGGGGTGGGGGTGGAGGCGGCTCCTGCGATCGA
AGGGGACTTGAGACTCACC GGCCGCACGCC**ATG**AGGGCCCTGTGGGTGCTGGGCCTCTGCTGCGTCTGCTGACC
TTCGGGTTCGGTCAGAGCTGACGATGAAGTTGATGTGGATGGTACAGTAGAAGAGGATCTGGGTAAAAAGTAGAGAA
GGATCAAGGACGGATGATGAAGTAGTACAGAGAGAGGAAGAAGCTATTCAAGTTGGATGGATTAAATGCATCACAA
ATAAGAGAAGCTTAGAGAGAAGTCGGAAGGTTTGCCTTCCAAGCCGAAGTTAACAGAATGATGAAACTTATCATC
AATTCATTGTATAAAAAATAAGAGATTTTCTGAGAGAAGTGAATTCAAATGCTTCTGATGCTTTAGATAAGATA
AGGCTAATATCACTGACTGATGAAAATGCTCTTTCTGGAAATGAGGAAGTAAACAGTCAAAATTAAGTGTGATAAG
GAGAAGAACCTGCTGCATGTCACAGACACCGGTGTAGGAATGACCAGAGAAGAGTTGGTTAAAAACCTTGGTACC
ATAGCCAAATCTGGGACAAGCGAGTTTTTAAACAAAATGACTGAAGCACAGGAAGATGGCCAGTCAACTTCTGAA
TTGATTGGCCAGTTTGGTGTGCGTTTTCTATTCCGCCTTCTTGTAGCAGATAAGGTTATTGTCACTTCAAAACAC
AACAACGATACCCAGCACATCTGGGAGTCTGACTCCAATGAATTTTCTGTAATTGCTGACCCAAGAGGAAACACT
CTAGGACGGGGAACGACAATTACCCTTGTCTTAAAGAAGAAGCATCTGATTACCTTGAATTGGATACAATTAAG
AATCTCGTCAAAAAATATTCACAGTTCATAAACTTTCTATTATGTATGGAGCAGCAAGACTGAACTGTTGAG
GAGCCCATGGAGGAAGAAGAAGCAGCCAAAGAAGAGAAAGAAGAATCTGATGATGAAGCTGCAGTAGAGGAAGAA
GAAGAAGAAAAGAAACCAAAGACTAAAAAGTTGAAAAACTGTCTGGGACTGGGAAGTTATGAATGATATCAAA
CCAATATGGCAGAGACCATCAAAAGAAGTAGAAGAAGATGAATACAAAGCTTTCTACAAATCATTTTCAAAGGAA
AGTGATGACCCCATGGCTTATATTCACCTTTACTGCTGAAGGGGAAGTTACCTTCAAATCAATTTTATTTGTACCC
ACATCTGCTCCACGTGGTCTGTTTGACGAATATGGATCTAAAAAGAGCGATTACATTAAGCTCTATGTGCGCCGT
GTATTATCATCAGACGACTTCCATGATATGATGCCTAAATACCTCAATTTTGTCAAGGGTGTGGTGGACTCAGAT
GATCTCCCCTTGAATGTTTTCCGCGAGACTCTTCAGCAACATAAACTGCTTAAGGTGATTAGGAAGAAGCTTGT
CGTAAAAACGCTGGACATGATCAAGAAGATTGCTGATGATAAATACAATGATACTTTTTTGAAAGAATTTGGTACC
AACATCAAGCTTGGTGTGATTGAAGACCACTCGAATCGAACACGTCTTGCTAAACTTCTTAGGTTCCAGTCTTCT
CATCATCCAAGTACATTACTAGCCTAGACCAGTATGTGGAAAGAATGAAGGAAAAACAAGACAAAATCTACTTC
ATGGCTGGGTCCAGCAGAAAAGAGGCTGAATCTTCTCCATTTGTTGAGCGACTTCTGAAAAAGGGCTATGAAGTT
ATTTACCTCACAGAAGCTGTGGATGAATACTGTATTACAGGCCCTTCCCGAATTTGATGGGAAGAGGTTCCAGAAT
GTTGCCAAGGAAGGAGTGAAGTTCGATGAAAGTGAGAAAAGTAAAGGAGAGTCGTGAAGCAGTTGAGAAAGAATTT
GAGCCTCTGCTGAATTGGATGAAAGATAAAGCCCTTAAGGACAAGATTGAAAAAGGCTGTGGTGTCTCAGCGCCTG
ACAGAATCTCCGTGTGCTTTGGTGGCCAGCCAGTACGGATGGTCTGGCAACATGGAGAGAATCATGAAAGCACAA
GCGTACCAAAACGGGCAAGGACATCTCTACAAATTACTATGCGAGTCAGAAGAAAACATTTGAAATTAATCCCAGA
CACCCGCTGATCAGAGACATGCTTCGACGAATTAAGGAAGATGAAGATGATAAAACAGTTTTGGATCTTGCTGTG
GTTTTGTTTGAAACAGCAACGCTTCGGTCAGGGTATCTTTTACCAGACACTAAAGCATATGGAGATAGAATAGAA
AGAATGCTTCGCCTCAGTTTGAACATTGACCCTGATGCAAAGGTGGAAGAAGAGCCCGAAGAAGAACCTGAAGAG
ACAGCAGAAGACACAACAGAAGACACAGAGCAAGACGAAGATGAAGAAATGGATGTGGGAACAGATGAAGAAGAA
GAAACAGCAAAGGAATCTACAGCTGAAAAAGATGAATTG**TAA**ATTATACTCTCACCATTGGATCCTGTGTGGAG
AGGGAATGTGAAATTTACATCATTTCTTTTTGGGAGAGACTTGTGTTGGATGCCCCCTAATCCCCTTCTCCCCTG
CACTGTAAAATGTGGGATTATGGGTACAGGAAAAAGTGGGTTTTTTAGTTGAATTTTTTTTAACATTCTCATG
AATGTAAATTTGTACTATTTAACTGACTATTCTTGATGTAAATCTTGTCATGTGTATAAAAAATAAAAAAGATCC
CAAT

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FIGURE 1138

MRALWVLGLCCVLLTFGSVRADDEVVDGTVVEEDLGKSREGSRTDDEVVQREEEAIQLDGLNASQIRELREKSEK
FAFQAEVNRMMKLIINSLYKNKEIFLRELISNASDALDKIRLISLTDENALSGNEELTVKIKCDKEKNLLHVTD
GVGMTREELVKNLGTIAKSGTSEFLNKMTEAQEDGQSTSELIGQFGVGFYSAFLVADKVIVTSKHNNDTQHIWES
DSNEFSVIADPRGNTLGRGTTITLVLKEEASDYLELDTIKNLVKKYSQFINFPIYVWSSKTETVEEPMEEEEAAK
EEKEESDDEAAVEEEEEKKPKTKKVEKTVDWELMNDIKPIWQRPSKEVEEDEYKAFYKFSKESDDPMAYIHF
TAEGETVTFKSILFVPTSAPRGLFDEYGSKKSDYIKLYVRRVFITDDFHDMPKYLNFVKGVVDSDDLPLNVSRET
LQQHKLLKVIRKKLVRKTLDMIKKIADDKYNDTFWKEFGTNIKLGVIEDHNSNRTRLAKLLRFQSSHPTDITSLD
QYVERMKEKQDKIYFMAGSSRKEAESSPFVERLLKKGYEVIYLTPEVDEYCIQALPEFDGKRFGQNVAKEGVKFDE
SEKTESREAVEKEFEPLNWMKDKALKDKIEKAVVSQRLTESPCALVASQYGWSGNMERIMKAQAYQTGKDIST
NYIASQKKTFEINPRHPLIRDMLRRIKEDDDKTVLDLAVVLFETATLRSGYLLPDTKAYGDRIERMLRSLNID
PDAKVEEPEEEPEETAEDTTEDTEQDEDEEMDVGTDDEEETAKESTAEKDEL

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FIGURE 1139

CTAACCCAGAAACATCCAATTCTCAAACCTGAAGCTCGCACTCTCGCCTCCAGCATGAAAGTCTCTGCCGCCCTTC
TGTGCCCTGCTGCTCATAGCAGCCACCTTCATTCCCCAAGGGCTCGCTCAGCCAGATGCAATCAATGCCCCAGTCA
CCTGCTGTTATAACTTCACCAATAGGAAGATCTCAGTGCAGAGGCTCGCGAGCTATAGAAGAATCACCAGCAGCA
AGTGTCCCAAAGAAGCTGTGATCTTCAAGACCATTGTGGCCAAGGAGATCTGTGCTGACCCCAAGCAGAAGTGGG
TTCAGGATTCCATGGACCACCTGGACAAGCAAACCCAAACTCCGAAGACTTGAAACTCACTCCACAACCCAAGA
ATCTGCAGCTAACTTATTTTCCCCTAGCTTTCCCAGACACCCTGTTTTATTTTATTATAATGAATTTGTTTGT
TGATGTGAAACATTATGCCTTAAGTAATGTTAATTCTTATTTAAGTTATTGATGTTTTAAGTTTATCTTTCATGG
TACTAGTGTTTTTTAGATACAGAGACTTGGGGAAATTGCTTTTCCTCTTGAACCACAGTTCTACCCCTGGGATGT
TTTGAGGGTCTTTGCAAGAATCATTAAACAAAGAATTTTTTTTAAACATTCCAATGCATTGCTAAAAATATTATTG
TGAAATGAATATTTTGTAACCTATTACACCAAATAAATATATTTTTGTACAAAAAAAAAAAAAA

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FIGURE 1140

MKVSAAALLCLLLIAATFIPQGLAQPDAINAPVTCCYNFTNRKISVQRLASYRRITSSKCPKEAVIFKTIVAKEIC
ADPKQKWWQDSMDHLDKQTQTPKT

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FIGURE 1141

ACAAACTACCCATTGGAAACACATGCAAAATCACTCAGTAGGGATACTCTCCTAACCCCTGGGCAAGTGAGGTCTT
CTTGCGAGTAAATAGTTTCCACTGAGGATGGACTTAGAATGAAGCTACCTTGAGGGGACACGTAGGCTACTAGTAT
TCAGGAACAACCTGCCAGAGACAATGCAGGAAGTGTGTGTGAAATGACCCAAAAGATAAGAGGGGTAGAGAAACCC
TAATGGAAGGACAGATAGTGTGAATAAAGGTAGATTCTGAAAAGAATGAGCTAGCACATTGTGTAAAGATGAGGA
GAGAATTAGGGCTCTGGAGGAGAGATCTGAGGAAACCACCCAGAATATAGCACAGAGAGATACAAAGAAGAAGAA
TTTGGATGAGTCATGAAAAGCTTGGAGGACAGGCTGAGAAGGTCCCGCAGTGTCTAACTGAATTCTAGAAGGAAA
GGCTAGGGGAGACTGGAATAGAGGCCATATGTGGAGGAATGTGGGTGAGAACTTGCTAACTGAGGAAAAACACTC
TTCCCAGGTGGAAGAGGCACACTGAGTTCAGAGTAGTGATGGTAAATAACAACCACATCCACCACTAGACACTC
TTTGGTGAACTATAGGGTATTAAAGACAAAGAGAAAAATTCTAAAAGCAGACTGGGACAACAAATCTGTATTTGT
AGCAGGAAAAAGCATGAGGTTTCAAGTTTTGACTGTACTGCTTGCTGCCTGTGTCATCTTAAGTAGGTCACCTACC
TGCTTCGAGCCTCAGAGGACATCTGTCATTGGCTAACTGGGAGTAGAAGTGGCTAATAACAAGAACAATGACTAC
CACACGAGGTTTTGTGAGCCCTGAAATATTTCCAGAGAATAAATGTAAAAGCATTTTAAGTC

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FIGURE 1142

MTTTRGFVSPEIFPENKCKSIL

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FIGURE 1143

GGCACGAGGGGTCCACCCAGTGCTTGCGGCCCTCGCGGCCGGGCGGCCTGGGCTGCAATCAATGCGGCTTTGTCT
GGGACGCCCCACATCCCAGAGGCCATTCCCGGGTCGGCAAATCGGAGCGCGGCCGGGGCGCGGGGGTGAGATAA
GCGGCCATGTGATCCCACCTGGGCTGGAAGGGGAGGGGCGCCAGGTGAGGCGGCGGCCGGGCGGGGCGGCGGCGG
CACGCGGGGCTCCTGCAGCATGGCTGTGAGCAGGAAGGACTGGTCCGCGCTGTCCAGCCTTGCCCCGCAGAGGAC
TCTGGAGGATGAGGAGGAACAGGAGCGCGAGCGCAGGCGGCGGCACCGCAACCTGAGCTCCACCACGGACGATGA
GGCTCCCAGGCTCAGCCAGAATGGAGACCGGCAGGCCTCTGCTTCTGAGAGACTACCGAGCGTGGAAGAAGCAGA
GGTGCCCAAGCCACTGCCCCAGCCTCCAAAGATGAGGACGAGGACATCCAGAGCATCCTCAGAACACGGCAGGA
GCGGAGGCAGAGGCGGCAGGTGGTGGAGGCTGCACAGGCCCCCATCCAGGAGAGGCTGGAGGCAGAGGAGGGGAG
GAACAGCTTGAGCCCTGTGCAGGCCACACAGAAACCCCTAGTCTCCAAGAAGGAAGTGGAAATCCCACCTCGCCG
GAGACTGAGTCGGGAACAGCGGGGCCCTGGGCCCTGGAGGAGGAGAGCTTGGTGGGCAGGGAGCCAGAAGAGAG
GAAGAAAGGGGTTCAGAAAAGTCCCCAGTCTTGAGAGAAGTCTCCATGCCAAAGAAGACGGCACCTGAAAAGAG
CCTGGTCTCCGATAAAACCTCCATCTCTGAGAAGGTGCTGGCCTCAGAGAAGACATCTCTATCAGAGAAGATAGC
AGTGTGAGAGAAAAGAAACAGCTCAGAGAAGAAGTCTGTTCTAGAAAAAACAGTGTCTCTGAGAAAGTCGCTGGC
CCCAGGGATGGCACTGGGCTCAGGAAGGAGGCTGGTGTCTGAGAAAGCTTCCATCTTTGAGAAAGGCACTGGCCTC
AGAGAAGAGCCCCAACTGCAGATGCTAAGCCGGCCCCAAAGAGGGCCACAGCCTCAGAGCAGCCCCTGCGCAGGA
GCCGCCAGCCTCTGGGGGAAGCCAGCCACCACCAAGGAGCAGAGAGGAAGGGCCCTCCCTGGGAAGAACCTGCC
CTCTTTGGCAAAGCAGGGGGCTTCAGACCCTCCGACTGTGGCCTCCCGCCTCCCACCCGTCACACTCCAGGTGAA
AATCCCCAGCAAGGAGGAAGAGGCAGATATGTCTCACCCACACAGCGAACCTACAGCAGCTCCCTCAAACGCTC
CAGCCCCAGGACCATCTCCTTTGGATGAAACCCAAAGAAAGAAAACCTCGGAAACAACCCCTAACTCGCAGTGCCAG
CATGAAGCTCCCAGACAACACAGTGAAGTTGGGAGAGAAGCTGGAGAGATACCACACGGCCATACGGAGATCAGA
ATCTGTCAAGTCTCGGGGTCTGCCTTGCACTGAGTTATTCTGTGGCTCCTGTGGGTGTAGCCAGCAAGCGCCACCT
CTTTGAGAAGGAACTGGCGGGCCAGAGCCGAGCAGAACCAGCCTCCAGCCGGAAGGAGAACTTGAGGCTCTCAGG
GGTTGTGACATCAAGGCTCAACCTGTGGATCAGCAGGACCCAGGAATCTGGAGATCAGGACCCCCAGGAGGCACA
GAAAGCATCATCTGCAACCGAGAGGACTCAGTGGGGACAGAAATCTGACTCCTCGCTGGACGCTGAGGTGTGACA
AGCCCCGCCAAGACAGACCTGCAAGTCTTCGTCTCAAGGGACCTCCCTCATGCCAGGCCCCTGCTCTCACAGCA
GCACCCTTTCCCTCTCATTGTCCCTGTTCCCTTTTTTGCTGTGGATCTGTTTGGCCAGGGTCCCTGGGGTCAGGAA
TATTTGCAAGACTCAGCCAGCTCCTTCCCAGCCAGCCTCTTGGGGCTGGGACTTTCTCACCTTGCGGCAGGCAC
AACAGATGCTGGGACCCAGTCTCTGCCAGGTACAGCACAAGTGACATCAGCACTATGGGGCCTATGTCTCTGC
CCAGAGACCTCTGCTCCTTCCCTGCTCACATCCACAGTCAGGGCACGGCGCCCCCTCAAGAACTCCAGAGTCACCTG
TCTCATCGGCTCCCAGCAAGTGCCCTCTTTGTCTATGATGTCCCCCTTCTCTGAGGCCTGGACCCACCCATCTTTG
TCCCTGGGGCCTGCTCCCAGCCACTGAGGCCCGCTCTGGCCAGGGGAGAAGGAGCTGCCGTGCGTCTTCCCTGTG
CCCCGTCTCCCTGCTTGGTTCTCCCTCCCTTCCCTGGCCGGCTGCCATGGCCAGGAGCTAAGTGCCTTTTTGTG
TGCAACCACTTACCCTTTCTCTGAAAACCTGTTCTCAGGAAGGATCTGATAAACTCATTTACTCTCAGGTGTAA
GAGACTGATGAGACCTTAGAAGCGAATTCTCTCTGGAGGCCTTGCTTTCTAGCAGAGGTCACCTGAAGTGTGTG
AGGAGGATCATCATTTTCTCATCCCCCTCTTCTCACATTAAGGTGGTGGCTTGCCACTCAGCAGTCCTAGCTT
GGTACTGGGAAGTCCACATACAGGGCCAGGCCTACCCTCCTTCCCCACAAGCCCCCTCAACCCCCACCCCCA
TGCTCTGGACCTCATGGCTCCTATGAGCTTGAGCATGGTGAACCATCAGAGAATCTAGAACCAACCAAGCTAGG
AACATCAGCCTGGTGCCCTGTTAACCCTTAAAGCTGTGTTTACAACCTTTCAAAAATTTAAATCATTAGAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1144

MAVSRKDWSALSSSLARQRTLEDEEEQERERRRRHRNLSSTTDDEAPRLSQNGDRQASASERLPSVEEAQVVKPLP
PASKDEDEDIQSILRTRQERRQRRQVVEAAQAPIQERLEAEGRNSLSPVQATQKPLVSKKELEIPRRRLSREQ
RGPWPLEEESLVGREPEERKKGVPEKSPVLEKSSMPKKTAPKSLVSDKTSISEKVLASEKTSLSEKIAVSEKRN
SSEKKSULEKTSVSEKSLAPGMALGSGRRLVSEKASIFEKALASEKSPADAKPAPKRATASEQPLAQEPPASGG
SPATTKQQRGRALPGKNLPSLAKQGASDPPTVASRLPPVTLQVKIPSKEEEADMSSPTQRTYSSSLKRSSPTIS
FRMKPKKENSETTLTRSASMKLPDNTVKLGEKLERYHTAIRRESVKSRGLPCTELFVAPVGVASKRHLFEKELA
GQSRAPASSRKENLRLSGVVTSLNLWISRTQESGDQDPQEAQKASSATERTQWGQKSDSSLDQEV

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FIGURE 1145

TAGATGGCAACCTCCCTATCTGCCCGCAGGTCATAGAGGCGACACGTAGCGTCATCTGACCCTGAAGCAAAGGCA
TCTCCACTCCAAAGTTAGACAAAATGCCAGGAATGTTCTTCTCTGCTAACCCAAAGGAATTGAAAGGAACCACTC
ATTCACTTCTAGACGACAAAATGCAAAAAGGAGGCCAAAGACTTTTGGAATGGATATGAAAGCATACTGAGAT
CTATGATCCCACATCTGGAATCTGGAATGAAATCTTCCAAGTCCAAGGATGTACTTTCTGCTGCTGAAGTAATGC
AATGGTCTCAATCTCTGGA AAAA ACTTCTTGCCAACCAA ACTGGTCAAAATGTCTTTGGAAGTTTCTTAAAGTCTG
AATTCAGTGAGGAGAAATATTGAGTTCTGGCTGGCTTGTGAAGACTATAAGAAAACAGAGTCTGATCTTTTGCCCT
GTAAAGCAGAAGAGATATATAAAGCATTTGTGCATTGAGATGCTGCTAAACAAATCAATATTGACTTCCGCACTC
GAGAATCTACAGCCAAGAA GATTAAAGCACCAACCCCCACGTGTTTTGATGAAGCACAAAAAGTCATATATACTC
TTATGGA AAAAGGACTCTTATCCAGGTTCTCTCAAATCAGATATTTACTTTAAATCTTCTAAATGACCTGCAGGCTA
ATAGCCTAAAGTGA CTGGTCCCTGGCTGAAGGGAATTAACAGATAGTATCAAGGCACGAAGGAATGTGCCAGTAT
GGCTCCCTGGGTGAACAGCTTGGCCTTTTTTGGGTGTCTTGACAGGCCAAGAAAGAACAAATGACTCAGAATGGAT
TAACATGAAAAGTTATCCAGGCGCAGAGTTGAAGAAGCATAAGCAAGACAAAAACAGAGAGACCGCAGAAGGAGGA
AGATACTGTGGTACTGTGCATAAAAAACAGTGGAGCTCTGTATTAGAAAAGCCCCCTCAGAACTGGGAAGGCCAGGTA
ACTCTAGTTACACAGAACTGTGACTAAAGTCTATGAAACTGATTACAACAGGCTGTAAAGAAATCAAAGTCAACTG
ACATCTATGCTACATATTATTATATAGTTTGTACTGAGCTATTGAAAGTCCCATTAACTTAAAGTATATGTTTTCA
AATTGCCATTGCTACTATTGCTTGTGCGTGTATTTTTATTTTATTGTTTTTGACTTTGGAAGAGATGAACTGTGTA
TTTAACTTAAAGCTATTGCTCTTAAACCAGGGATCAGAATATATTTGTAAGTTAAATCATTGGTGCTAATAATAA
ATGTGGATTTTGTATTAAAAATATATAGAAGCAATTTCTGTTTACATGTCTTGCTACTTTTAAAAA ACTTGCATTT
ATTCCTCAGATTTTAAAAATAAAATAAATAATTCATTTAAAAA AAAAAA

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FIGURE 1146

MPGMFFSANPKELKGTTHSLLDDKMQRPKTFGMDMKAYLRSMIPHLESGMKSSKSKDVL SAAEVMQWSQSLEK
LLANQTGQNVFGSFLKSEFSEENIEFWLACEDYKKTESDLLPCKAEIYKAFVHSDAAKQINIDFRTRESTAKKI
KAPTPTCFDEAQKVIYTLMEKDSYPRFLKSDIYLNLLNDLQANSLK

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FIGURE 1147

CGCGCCAGGGCGAGGGCACCGCCGCCGCTCGGGCGCGCTGGGCCTGCCCGGAATCCCGCCGCTGCGCCCCGCGC
CCCGCGCCCTGCGGGCCATGGGAGCCGCGCCGCGGAGGGACGACGCCTGTGAGACCCGCGAGCGGCCTCGGGGA
CCATGGGGAGCGATCGGGCCCCGAAGGGCGGAGGGGGCCCCGAAGGACTTCGGCGCGGGACTCAAGTACAACTCCC
GGCAGAGAAAGTGAATGGCTTGGAGGAAGGCGTGGAGTTCTGCCAGTCAACAACGTCAAGAAGGTGGAAAAGC
ATGGCCCCGGGGCGCTGGGTGGTGTCTGGCAGCCGTGCTGATCGGCCTCCTCTTGGTCTTGCTGGGGATCGGCTTCC
TGGTGTGGCATTTCAGTACCGGGACGTGCGTGTCCAGAAGGTCTTCAATGGCTACATGAGGATCACAAATGAGA
ATTTTGTGGATGCCTACGAGAACTCCAACCTCCACTGAGTTTGTAAAGCCTGGCCAGCAAGGTGAAGGACGCGCTGA
AGCTGCTGTACAGCGGAGTCCCATTCTTGGGCCCCCTACCACAAGGAGTGGCTGTGACGGCCTTCAGCGAGGGCA
GCGTCATCGCCTACTACTGGTCTGAGTTTACGATCCCGCAGCACCTGGTGGAGGAGGCCGAGCGCGTCATGGCCG
AGGAGCGCGTAGTCATGCTGCCCCGCGGGCGCGCTCCCTGAAGTCCTTTGTGGTACCTCAGTGGTGGCTTTCC
CCACGGACTCCAAAACAGTACAGAGGACCCAGGACAACAGCTGCAGCTTTGGCCTGCACGCCCCGCGGTGTGGAGC
TGATGCGCTTACCACGCCCCGGCTTCCCTGACAGCCCCCTACCCGCTCATGCCCGCTGCCAGTGGGCCCTGCGGG
GGGACGCCGACTCAGTGTGAGCCTCACCTTCCGCAGCTTTGACCTTGCGTCTGCGACGAGCGCGGCAGCGACC
TGGTGACGGTGTACAACACCCTGAGCCCCATGGAGCCCCACGCCCTGGTGCAGTTGTGTGGCACCTACCCTCCCT
CCTACAACCTGACCTTCCACTCCTCCCAGAACGTCCTGCTCATCACACTGATAACCAACACTGAGCGGCGGCATC
CCGGCTTTGAGGGCCACCTTCTTCCAGCTGCCTAGGATGAGCAGCTGTGGAGGCCGCTTACGTAAAGCCCAGGGGA
CATTCAACAGCCCCCTACTACCCAGGCCACTACCCACCCAACATTGACTGCACATGGAACATTGAGGTGCCCAACA
ACCAGCATGTGAAGGTGCGCTTCAAATTCTTCTACCTGCTGGAGCCCCGGCGTGCCTGCGGGCACCTGCCCAAGG
ACTACGTGGAGATCAATGGGGAGAAATACTGCGGAGAGAGGTCCCAGTTTCGTGCTCACCAGCAACAGCAACAAGA
TCACAGTTCGCTTCCACTCAGATCAGTCTACACCGACACCGGCTTCTTAGCTGAATACCTCTCTACGACTCCA
GTGACCCATGCCCCGGGGCAGTTCACGTGCCGCACGGGGCGGTGTATCCGGAAGGAGCTGCGCTGTGATGGCTGGG
CCGACTGCACCGACCACAGCGATGAGCTCAACTGCAGTTGCGACGCCGGCCACCAGTTCAGTGCAGAACAAGT
TCTGCAAGCCCCCTCTTCTGGGTCTGCGACAGTGTGAACGACTGCGGAGACAACAGCGACGAGCAGGGGTGCAGTT
GTCCGGCCCCAGACCTTCAGGTGTTCCAATGGGAAGTGCCTCTCGAAAAGCCAGCAGTGCAATGGGAAGGACGACT
GTGGGGACGGGTCCGACGAGGCCTCCTGCCCAAGGTGAACGTCGTCACCTTGTACCAACACACCTACCGCTGCC
TCAATGGGCTCTGCTTGAGCAAGGGCAACCCTGAGTGTGACGGGAAGGAGGACTGTAGCGACGGCTCAGATGAGA
AGGACTGCGACTGTGGGCTGCGGTCAATCACGAGACAGGCTCGTGTGTTGGGGGCACGGATGCGGATGAGGGCG
AGTGGCCCTGGCAGGTAAGCCTGCATGCTCTGGGCCAGGGCCACATCTGCGGTGCTTCCCTCATCTCTCCAACT
GGCTGGTCTCTGCCGCACACTGCTACATCGATGACAGAGGATTGAGTACTCAGACCCACGCAGTGGACGGCCT
TCCTGGGCTTGACGACCAGAGCCAGCGCAGCGCCCCCTGGGGTGCAGGAGCGCAGGCTCAAGCGCATCATCTCCC
ACCCCTTCTTCAATGACTTCACCTTCGACTATGACATCGCGCTGCTGGAGCTGGAGAAACCGGCAGAGTACAGCT
CCATGGTGCGGCCCATCTGCCTGCCGGACGCTCCCATGTCTTCCCTGCCGGAAGGCCATCTGGGTACGGGCT
GGGGACACACCCAGTATGGAGGCACTGGCGCGCTGATCCTGCAAAAGGGTGAGATCCGCGTCATCAACCAGACCA
CCTGCGAGAACCTCCTGCCGCAGCAGATCACGCCGCGCATGATGTGCGTGGGCTTCTCAGCGCGGCGTGGACT
CCTGCCAGGGTGATTCCGGGGGACCCCTGTCCAGCGTGGAGGCGGATGGGCGGATCTTCCAGGCCGGTGTGGTGA
GCTGGGGAGACGGCTGCGCTCAGAGGAACAAGCCAGGCGGTACACAAGGCTCCCTCTGTTTCGGGACTGGATCA
AAGAGAACTGGGGTATAGGGGGCCGGGGCCACCCAAATGTGTACACCTGCGGGGCCACCCATCGTCCACCCAG
TGTGCACGCCTGCAGGCTGGAGACTGGACCGCTGACTGCACCAGCGCCCCCAGAACATACACTGTGAACCTCAATC
TCCAGGGCTCCAAATCTGCCTAGAAAACCTCTCGCTTCTCAGCCTCCAAAGTGGAGCTGGGAGGTAGAAGGGGA
GGACACTGGTGGTTCTACTGACCCAACTGGGGGCAAAGGTTTGAAGACACAGCCTCCCCCGCCAGCCCCAAGCTG
GGCCGAGGCGCGTTTGTGTATATCTGCCTCCCTGTCTGTAAGGAGCAGCGGGAACGGAGCTTCGGAGCCTCCTC
AGTGAAGGTGGTGGGGCTGCCGATCTGGGCTGTGGGGCCCTTGGGCCACGCTCTTGAGGAAGCCCAGGCTCGGA
GGACCTTGAAAAACAGACGGGTCTGAGACTGAAATTGTTTTACCAGCTCCCAGGGTGGACTTCAGTGTGTGTATT
TGTGTAAATGAGTAAAACATTTTATTTCTTTTTAAAAA

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FIGURE 1148

MGSDRARKGGGGPKDFGAGLKYNSRHEKVNGLEEGVEFLPVNNVKKVEKHGPGRWVLA AVLIGLLLVL LGIGFL
VWHLQYRDVRVQKVFNGYMRTNENFVDAYENSNSTEFVSLASKVKDALKLLYSGVPFLGPYHKESAVTAFSEGS
VIAYYWSEFSIPQHLVEEAERVMAEERVVMLPPRARSLSFVVTSVVAFF TDSKTVQRTQDNCSFGLHARGVEL
MRF TTPGF PDSYP PAHARCQWALRGDADSVLSLTFRSFDLASC DERGSDLVT VYNTLSPMEPHALVQLCGTYPPS
YNLTFHSSQNVLLITLITNTERRHPGFEATFFQLPRMSSCGGRLRKAQGTFN SPYYPGHYPNIDCTWNIEVPNN
QHV KVRFKFFYLLEPGVPAGTCPKDYVEINGEKYCGERSQFVVTSNSNKITVRFHSDQSYTDTGFLAEYLSYDSS
DPCPGQFTCRTGRCIRKELRCDGWADCTDHSDELNCSCDAGHQFTCKNKFCKPLFWVCD SVNDCGDN SDEQGCSC
PAQTFRCSNGKCLSKSQQCNGKDDCGDGSDEASCPKVNVTCTKHTYRCLNGLCLSKGNPECDGKEDCSDGSDEK
DCDCGLRSFTRQARVVG GTDADEGEWPWQVSLHALGQGHICGASLISP NWLVSAAH CYIDDRGFRYSDPTQWTAF
LGLHDQSQRSAPGVQERRLKRIISHPFFNDFTFDYDIALLELEKPAEYSSMVRPICLPDASHVFPAGKAIWVTGW
GHTQYGGTGALILQKGEIRVINQTT CENLLPQQITPRMMCVGFLSGGV DSCQGDSSGGPLSSVEADGRIFQAGVVS
WGDGCAQRNKPGVYTRLPLFRDWIKENTGV

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FIGURE 1149

GTTTGTGGCTGCGGCAGCAGGTAGCAAAGTGACGCCGAGGGCCTGAGTGCTCCAGTAGCCACCGCATCTGGAGA
ACCAGCGGTTACCATGAGAGGGGATCAGTATATACACTTCAGATAACTACACCGAGGAAATGGGCTCAGGGGACTA
TGACTCCATGAAGGAACCCTGTTTCCGTGAAGAAAATGCTAATTTCAATAAAATCTTCCTGCCCCACCATCTACTC
CATCATCTTCTTAACTGGCATTGTGGGCAATGGATTGGTCATCCTGGTCATGGGTTACCAGAAGAACTGAGAAG
CATGACGGACAAGTACAGGCTGCACCTGTCAGTGGCCGACCTCCTCTTTGTCATCACGCTTCCCTTCTGGGCAGT
TGATGCCGTGGCAAACCTGGTACTTTGGGAACTTCCTATGCAAGGCAGTCCATGTCATCTACACAGTCAACCTCTA
CAGCAGTGTCTCATCCTGGCCTTCATCAGTCTGGACCGCTACCTGGCCATCGTCCACGCCACCAACAGTCAGAG
GCCAAGGAAGCTGTTGGCTGAAAAGGTGGTCTATGTTGGCGTCTGGATCCCTGCCCTCCTGCTGACTATTCCCGA
CTTCATCTTTGCCAACGTGAGTGAGGCAGATGACAGATATATCTGTGACCGCTTCTACCCCAATGACTTGTGGGT
GGTTGTGTTCCAGTTTCAGCACATCATGGTTGGCCTTATCCTGCCTGGTATTGTCATCCTGTCTGCTATTGCAT
TATCATCTCCAAGCTGTCACACTCCAAGGGCCACCAGAAGCGCAAGGCCCTCAAGACCACAGTCATCCTCATCCT
GGCTTTCTTCGCCTGTTGGCTGCCTTACTACATTGGGATCAGCATCGACTCCTTCATCCTCCTGGAAATCATCAA
GCAAGGGTGTGAGTTTGGAGAACTGTGCACAAGTGGATTTCATCACCGAGGCCCTAGCTTTCTTCCACTGTTG
TCTGAACCCCATCCTCTATGCTTTCCCTGGAGCCAAATTTAAAACCTCTGCCCAGCACGCACTCACCTCTGTGAG
CAGAGGGTCCAGCCTCAAGATCCTCTCCAAAGGAAAGCGAGGTGGACATTCATCTGTTTCCACTGAGTCTGAGTC
TTCAAGTTTTCACTCCAGCTAAACACAGATGTAAAAGACTTTTTTTTTATACGATAAAATAACTTTTTTTAAGTTAC
ACATTTTTTCAGATATAAAAGACTGACCAATATTGTACAGTTTTTTATTGCTTGTGGATTTTTGTCTTGTGTTTCT
TTAGTTTTTGTGAAGTTTAAATTGACTTATTTATATAAATTTTTTTTGTTCATATTGATGTGTGTCTAGGCAGGA
CCTGTGGCCAAGTTCTTAGTTGCTGTATGTCTCGTGGTAGGACTGTAGAAAAGGGAACTGAACATTCAGAGCGT
GTAGTGAATCACGTAAAGCTAGAAATGATCCCCAGCTGTTTATGCATAGATAATCTCTCCATTCCCGTGGAAACGT
TTTTCTGTTCTTAAGACGTGATTTTGCTGTAGAAGATGGCACTTATAACCAAAGCCCAAAGTGGTATAGAAATG
CTGGTTTTTCAGTTTTTCAGGAGTGGGTTGATTTTCAGCACCTACAGTGTACAGTCTTGTATTAAAGTTGTTAATAAA
AGTACATGTTAAACTTACTTAGTGTTATG

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FIGURE 1150

MEGISIYTS DNYTEEMSGDYDSMKEPCFREENANFNKIFLPTIYSIIIFLTGIVGNGLVILVMGYQKKLRSM TDK
YRLHLSVADLLEFVITL PFWAVDAVANWYFGNFLCKAVHVIYTVNLYSSVLILAFISLD RYLAIVHATNSQRPRKL
LA EKVVYVGWIPALLLTIPDFIFANVSEADDRYICDRFYPNDLWVVVFQFQHIMVGLILPGIVILSCYCIISK
LSHSGHQRKALKTTVILILAFFACWL PYYIGISIDSFILLEIKQCEFENTVHKWISITEALAFFHCCLNPI
LYAFLGAKFKTSAQHALTSVSRGSSLKILSKGKRGGHSSVSTESESSSFHSS

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FIGURE 1151

TAAATTGCCATTTGAAATCTTTATTAGTTAGCAAAAAATCTAACATAATCATCAGAGTTTTAAGTAGTAGTGAC
AGAAGATAAAAAATGCCTCCATATCCCAAATTAACATCTCCGTATACCAAGTAGCTAACTTTTTATTGTTTTACAAC
TAAAGTCAGGGTTTTTATTTTCAGAGACAATTCTGCAAACCTTGACATTAAAGCAGTAGTTTGGCATGGTTTAAAA
TACATTCAAATGTATACTAAATGTTTTAGAAAATATTCCATTGTTGAATACATTCACATGGAATTTATGTGAAT
TAATTGAATTGATAGTGAAATATTATAAGCACCATGTGAACATACACAAACATATTCTTG

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FIGURE 1152

GAATTCGGGAAGCCAGACGGTTAACACAGACAAAGTGCTGCCGTGACACTCGGCCCTCCAGTGTTGCGGAGAGG
CAAGAGCAGCGACCGCGCACCTGTCCGCCCCGAGCTGGGACGCGCGCCCCGGGCGGCCGGACGAAGCGAGGAGGGA
CCGCCGAGGCTGCCCCAAGTGTAACCTCAGCACTGTGAGGTTTCAGGGATTGGCAGAGGGGACCAAGGGGACAT
GAAAATGGACATGGAGGATGCGGATATGACTCTGTGGACAGAGGCTGAGTTTGAAGAGAAGTGACATACATTGT
GAACGACCACCCCTGGGATTCTGGTGCTGATGGCGGTACTTCGGTTCAGGCGGAGGCATCCTTACCAAGGAATCT
GCTTTTCAAGTATGCCACCAACAGTGAAGAGGTTATTGGAGTGATGAGTAAAGAATACATACCAAGGGCACACG
TTTTGGACCCCTAATAGGTGAAATCTACACCAATGACACAGTTCCTAAGAACGCCAACAGGAAATATTTTTGGAG
GATCTATTCCAGAGGGGAGCTTCACCACTTCATTGACGGCTTTAATGAAGAGAAAAGCAACTGGATGCGCTATGT
GAATCCAGCACACTCTCCCCGGGAGCAAAACCTGGCTGCGTGTGAGAACGGGATGAACATCTACTTCTACACCAT
TAAGCCCATCCCTGCCAACCAAGGAACCTTCTTGTGTGGTATTGTTCGGGACTTTGCAGAAAGGCTTCACTACCCCTTA
TCCCGGAGAGCTGACAATGATGAATCTCACACAAACACAGAGCAGTCTAAAGCAACCGAGCACTGAGAAAAATGA
ACTCTGCCCAAAGAATGTCCCAAAGAGAGGTACAGCGTGAAAGAAATCCTAAAATTGGACTCCAACCCCTCCAA
AGGAAAGGACCTCTACCGTTCTAACATTTACCCCTCACATCAGAAAAGGACCTCGATGACTTTAGAAGACGTGG
GAGCCCCGAAATGCCCTTCTACCCCTCGGGTCTGTTACCCCATCCGGGCCCCCTCTGCCAGAAGACTTTTTGAAAGC
TTCCCTGGCCTACGGGATCGAGAGACCCACGTACATCACTCGCTCCCCATTCCATCCTCCACCACTCCAAGCCC
CTCTGCAAGAAGCAGCCCCGACCAAAGCCTCAAGAGCTCCAGCCCTCACAGCAGCCCTGGGAATACGGTGTCCCC
TGTGGGCCCCGGCTCTCAAGAGCACCAGGACTCCTACGCTTACTTGAACGCGTCTACGGCACGGAAGGTTTGGG
CTCCTACCCCTGGCTACGCACCCCTGCCCCACCTCCCGCCAGCTTTCATCCCTCGTACAACGCTCACTACCCCAA
GTTCTCTTTGCCCCCTACGGCATGAATTGTAATGGCCTGAGCGCTGTGAGCAGCATGAATGGCATCAACAACCTT
TGGCCTCTTCCCGAGGCTGTGCCCTGTCTACAGCAATCTCCTCGGTGGGGGAGCCTGCCCCACCCCATGCTCAA
CCCCACTTCTCTCCCGAGCTCGCTGCCCTCAGATGGAGCCCGGAGGTTGCTCCAGCCGGAGCATCCCAGGGAGGT
GCTTGTCCCGGCGCCCCACAGTGCCTTCTCCTTTACCGGGGCGCCGCCAGCATGAAGGACAAGGCCTGTAGCCC
CACAAGCGGTCTCCACGGCGGGAACAGCCGCCACGGCAGAACATGTGGTGCAGCCCAAAGCTACCTCAGCAGC
GATGGCAGCCCCCAGCAGCGACGAAGCCATGAATCTCATTAAAAACAAAAGAAACATGACCGGCTACAAGACCTT
TCCCTACCCGCTGAAGAAGCAGAACGGCAAGATCAAGTACGAATGCAACGTTTGCGCCAAGACTTTCGGCCAGCT
CTCCAATCTGAAGGTCCACCTGAGAGTGCACAGTGGAGAACGGCCTTTCAAATGTCAGACTTGCAACAAGGGCTT
TACTCAGCTCGCCCACCTGCAGAAACACTACCTGGTACACACGGGAGAAAAGCCACATGAATGCCAGGTCTGCCA
CAAGAGATTTAGCAGCACCAGCAATCTCAAGACCCACCTGCGACTCCATTCTGGAGAGAAACCATACCAATGCAA
GGTGTGCCCTGCCAAGTTCACCCAGTTTGTGCACCTGAACTGCACAAGCGTCTGCACACCCGGGAGCGGCCCCA
CAAGTGCTCCAGTGCCACAAGAACTACATCCATCTCTGTAGCCTCAAGGTTACCTGAAAGGGAACTGCGCTGC
GGCCCCGGCGCCTGGGCTGCCCTTGGAAAGATCTGACCCGAATCAATGAAGAAATCGAGAAGTTTGACATCAGTGA
CAATGCTGACCGGCTCGAGGACGTGGAGGATGACATCAGTGTGATCTCTGTAGTGGAGAAGGAAATCTTGCCCGT
GGTCAGAAAAGAGAAAGAAAGAACTGGCCTGAAAGTGTCTTTGCAAGAAACATGGGGAATGGACTCCTCTCCTC
AGGGTGCAGCCTTTATGAGTCATCAGATCTACCCCTCATGAAGTTGCCTCCAGCAACCCACTACCTCTGGTACC
TGTAAGGTCAAACAAGAAACAGTTGAACCAATGGATCCTTAAGATTTTCAGAAAACACTTATTT

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FIGURE 1153

MKMDMEDADMTLWTEAEFEKCTYIVNDHPWDSGADGGTSVQAEASLPRNLLFKYATNSEEVIIGVMSKEYIPKGT
RFGPLIGEIIYTN DTPKNANRKYFWRIYSRGELHHFIDGFNEEKSNWMRYVNP AHS PREQNL AACQNGMNIYFYT
IKPIPANQELLVWYCRDFAERLHYPYPGELTMMNL TQTQSS LKQPST EKNELCPKNVPKREYSVKEILKLD SNPS
KGKDL YRSNISPLTSEKDLDDFRRRGSP EMPFYPRVVYPIRAPLPEDFLKASLAYGIERPTYITRSP IPSSTTPS
PSARSSPDQSLKSSSPHSSPGNTVSPVGPGSQEHRDSYAYLNASYGTEGLGSYPGYAPLPHLPPAFIPSYNAHYP
KFLLP PYGMNCNGLSAVSSMNGINNFGLFPRLCPVYSNLLGGGSLPHPMLNPTSLPSSLPSDGARRLLQPEHPRE
VLVPAPHSASFSTGAAASMKDKACSPTSGSPTAGTAATAEHVVQPKATSAAMAAPSSDEAMNLIK NKRNM TGYKT
LPYPLKKQNGKIKYECNVCAKTFGQLSNLKVHLRVHSGERPFCQTCNKGFTQLAHLQKH YLVHTGEKPHECQVC
HKRFSSTSNL KTHLR LHSGEKPYQCKVCPAKFTQFVHLKLHKRLHTRERPHKCSQCHKNYIHLCSLKVHLKGNCA
AAPAPGLPLEDLTRINEEIEKFDISDNADRLEDVEDDISVISVVEKEILAVVRKEKEETGLKVSLQRNMGNGLLS
SGCSLYESSDLPLMKLPFSNPLPLVPVKVKQETVEPMDP

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FIGURE 1154

[illegible]

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FIGURE 1155

MPKPINVRVTMDAELEFAIQPNTTGKQLFDQVVKTIGLREVWYFGLHYVDNKGFTWLKLDKKVSAQEVKKNP
LQFKFRAKFYPEDVAEELIQDITQKLFFLQVKEGILSDEIYCPPETAVLLGSYAVQAKFGDYNKEVHKSGYLSSE
RLIPQRVMDQHKLTRDQWEDRIQVWHAHRGMLKDNAMLEYLTKIAQDLEMYGINYFEIKNKKGTDLWLGVDA
LGLNIYEKDDKLTTPKIGFPWSEIRNISFNDKKFVIKPIDKKAPDFVFYAPRLRINKRILQLCMGNHELYMRRRK
PDTEVQQMKAQAREEKHQKQLERQQLETEKKRRRETVEREKEQMMREKEELMLRLQDYEEKTKKAERELSEQI
QALQLEERKRAQEEAERLEADRMAALRAKEELERQAVDQIKSQEQLAAELAEYTAKIALLEEARRRKEDEVEE
WQHRAKEAQDDLVTKEELHLVMTAPPPPPPVYEPVSYHVQESLQDEGAEPTGYSAELSSEGIRDDRNEEKRI
TEAEKNE RVQRQLLTLSSELSQARDENKRTHNDIIHNENMRQGRDKYKTLRQIRQGNTKQRIDEFEAL

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FIGURE 1156

CTATAAATTAAGGATCCCAGCTACTTAATTGACTTATGCTTCCTAGTTCGTTGCCAGCCACCACCGTCTCTCCA
AAAACCCGAGGTCTCGCTAAATCATCATATGGATTACATTGGCGCCGTCAGCACTCGACTTGGGTTTGATCTTTTC
AAAGAGCTGAAGAAAACAAATGATGGCAACATCTTCTTTTCCCCTGTGGGCATCTTGACTGCAATTGGCATGGTC
CTCCTGGGGACCCGAGGAGCCACCGCTTCCCAGTTGGAGGAGGTGTTTCACTCTGAAAAAGAGACGAAGAGCTCA
AGAATAAAGGCTGAAGAAAAAGAGGTGATTGAGAACACAGAAGCAGTACATCAACAATTCCAAAAGTTTTTGACT
GAAATAAGCAAACCTCACTAATGATTATGAACTGAACATAACCAACAGGCTGTTTGGAGAAAAAACATACCTCTTC
CTTCAAAAATACTTAGATTATGTTGAAAAATATTATCATGCATCTCTGGAACCTGTTGATTTTGTAATGCAGCC
GATGAAAGTCGAAAGAAGATTAATTCCTGGGTGAAAGCAAAACAAATGAAAAATCAAGGACTTGTTCACAGAT
GGCTCTATTAGTAGCTCTACCAAGCTGGTGCTGGTGAACATGGTTTATTTTAAAGGGCAATGGGACAGGGAGTTT
AAGAAAGAAAATACTAAGGAAGAGAAATTTGGATGAATAAGAGCACAAAGTAAATCTGTACAGATGATGACACAG
AGCCATTCTTTAGCTTCACTTTCTTGGAGGACTTGCAAGGCCAAAATCTAGGGATTCCATATAAAAAACAACGAC
CTAAGCATGTTTGTGCTTCTGCCCAACGACATCGATGGCCTGGAGAAGATAATAGATAAAATAAGTCTGAGAAA
TTGGTAGAGTGGACTAGTCCAGGGCATATGGAAGAAAGAAAGGTGAATCTGCACCTTGCCCCGGTTTGAGGTGGAG
GACGGTTACGATCTAGAGGCGGTCTGGCTGCCATGGGGATGGGCGATGCCTTCAGTGAGCACAAAGCCGACTAC
TCGGGAATGTCTGTCAGGCTCCGGGTGTACGCCCAGAAGTTCCTGCACAGTTCCTTTGTGGCAGTAACTGAGGAA
GGCACCGAGGCTGCAGCTGCCACCGGCATAGGCTTTACTGTACATCCGCCCCAGGTCATGAAAATGTTCACTGC
AATCATCCCTTCTGTTCTTTCATCAGGCACAATGAATCCAACAGCATCCTCTTCTTCCGCAGATTTTCTTCTCCT
TAAGATGATCGTTGCCATGGCATTGCTGCTTTTAGCAAAAAACAACCTACCAGTGTTACTCATATGATTATGAAAA
TCGTCCATTCTTTTAAATGTTGTCTCACTTGCATTTCCAGTCTTGCCCATCAAATCAATGATTTAATGACTCCAA
TAATGTGTGTGTTTATAACCATCCTCGAAAGTGAAATGTCCTTTTTTTTTTGTGCCATGCGTAAGGTGAGTCAAACC
AAACCTCATTGATAATCTCCCCTTTGGTTTCTTTGAAAGTAAATTGGTATCTTGTAGTTTTGTGCACACGAAAG
GAGAGAAAGTTTTCTCCAGTAAAGAGTACGAACTAGTAATTTTGGGGGGTCTCTCTAATTCTGGTATTTTGACATG
TTATAATACGCAAGTAAAAATAAAACAATAGTTTACTCAGCTCATGTTACTATTCCCCAACAGATATTGTGGCAAA
TCACACATAGGAAAAGAGGATTTGGGAATACAGTAGCAAAACATAAATTAAAACTCAAATGCCCAGGACAAAATAA
AACAATATACCAGATGGAGAGGATGCCCGTATTTTCATCTTCCATTCTAACATTATCCATTGTTAGATGCATAAG
CATTTTGATAATTGTGTAATAAATGTGGTATTTGAGAAGATAAATGATGTAGTTGATCAGTAATCCTCCTCTATCA
CCTTTTTAGACTTTTGTAAGGTAAATATTTGGACTAACTTTTAGAAAAGTTTTCCCTTTTTTCTCCATTTACATTT
TTCTGGTTTTTTTTTTTTTTTTTTTGTAGTGAGGTACGAGTATTACCAATGATATTTCTGAAGATGCTTTTTGGAA
AGCTCTGAATCTATACCTAATGCTCTTAATTATTGGCTTGTTTCATTTTTTTTCTCCAGTTTTTAACAAGATCAC
ATAACTGGCTTATTTTAAACAGCTTTGTCAAACATAATTTACATGCCGTAAAATGTACACACTGTAATTTTATA
ATTCATTGACTTTTAGTAAATTTCTAGCGTTATGCATGCCACAATCCAGTTTTAGAATATTTCCATGACCCTA
AGAAGTTTCTCATGTCTATTAATATTCCCAATCCTAGGCACCACTGAGTTGTTTTCTGTCTTTATAAGTTTTTC
TTTCTACATCTTATATAAATGGAATCATAATACATGTAGTATTTTGTGTCTGGCGTCTGCACTTAGCATGGTGT
TCTTGAGGTTCACTGTTGTAGTATGTATTGATACTTAGGATTTTTTTATTGCCGAATACTATTCCATTGCATGG
AAAAGACCTATTTTATTTCTAGGTTACCAGTTGAGGGACATTTGGATTGTTCCCACTTCTGGGCTGTTAGGAA
TAATGTTGCTCTGAACATGTAAATAAAGATCTTTGTGTTACATATGTTTTTCATTTCTGTTGGGGAGATTCCC
TAGGCTAGAAATGCTGGGCCATATGAAAAATCAATAGTTAGCTTTGTAAGAAACAGTCAAACCTGTTTTCCAAC
GTGACATTTTATATTCCACCAGGAATGTTTAAACTAGTGTCTTCAAATCCTCACCAACATCCAGGATTGTGTC
TTTATGATTATAGCCATTTTTGTAGGTACAAAGTGGCATCTCATGGTGGTTTTAATTGCATTTCCATAATATCT
AATTAGGTTGAGCTTTTTTTATGTGCTTATTGGCCATTTGTTTGACTTTGTTTGGTGAAATGTATACAAATCATT
TGCTCATTTTTTAATTTGGGTTGCTGTCTTGTCTTCTCATTTTTATTGAGTTAAATGAGTTCCTTAATAATCTCTGG
CTTACAAGTCCTTAATTTATCAAATATATGATACGTGGACATTTCTCATAAAAA

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FIGURE 1157

MDSLGA VSTR LGFDL FKELKKTNDGN IFFSPVGILTAIGMVLLGTRGATASQLEEVFHSEKETKSSRIKAEKEV
IENTEAVHQFQKFLTEISKLTNDYELNITNRLFGEKTYLFLQKYLDYVEKYYHASLEPVDFVNAADESRRKINS
WVESKTNEKIKDLFPDGSISSSTKLVLVNMVYFKGQWDREFKKENTKEEFWMNKSTSKSVQMMTQSHSFSTFL
EDLQAKILGIPYKNNDLSMFVLLPNDIDGLEKIIDKISPEKLV EWTS PGHMEERKVNHLHLPREFEVEDGYDLEAVL
AAMGMGDAFSEHKADYSGMSSGSGLYAQKFLHSSFVAVTEEGTEAAAATGIGFTVTSAPGHENVHCNHPFLFFIR
HNESNSILFFGRFSSP

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FIGURE 1158

TAGCTAGGCAGGAAGTCGGCGCGGGCGGCGGGACAGTATCTGTGGGTACCCGGAGCACGGAGATCTCGCCGGCT
TTACGTTACCTCGGTGTCTGCAGCACCTCCGCTTCCTCTCCTAGGCGACGAGACCCAGTGGCTAGAAGTTCAC
CATGTCTATTCTCAAGATCCATGCCAGGGAGATCTTTGACTCTCGCGGGAATCCCACTGTTGAGGTTGATCTCTT
CACCTCAAAAGGTCTCTTCAGAGCTGCTGTGCCCAGTGGTGCTTCAACTGGTATCTATGAGGCCCTAGAGCTCCG
GGACAATGATAAGACTCGCTATATGGGGAAGGGTGTCTCAAAGGCTGTTGAGCACATCAATAAAACTATTGCGCC
TGCCCTGGTTAGCAAGAACTGAACGTCACAGAACAAGAGAAGATTGACAAACTGATGATCGAGATGGATGGAAC
AGAAAATAAATCTAAGTTTGGTGCGAACGCCATTCTGGGGGTGTCCCTTGCCGCTCTGCAAAGCTGGTGCCGTTGA
GAAGGGGGTCCCCCTGTACCGCCACATCGCTGACTTGGCTGGCAACTCTGAAGTCATCCTGCCAGTCCCGGCGTT
CAATGTCATCAATGGCGGTTCTCATGCTGGCAACAAGCTGGCCATGCAGGAGTTCATGATCCTCCAGTCGGTGC
AGCAAACCTTCAGGGAAGCCATGCGCATTGGAGCAGAGGTTTACCACAACCTGAAGAATGTCATCAAGGAGAAATA
TGGGAAAGATGCCACCAATGTGGGGGATGAAGGCGGGTTTGCTCCCAACATCCTGGAGAATAAAGAAGGCCTGGA
GCTGCTGAAGACTGCTATTGGGAAAGCTGGCTACACTGATAAGGTGGTCATCGGCATGGACGTAGCGGCCTCCGA
GTTCTTCAGGTCTGGGAAGTATGACCTGGACTTCAAGTCTCCCGATGACCCAGCAGGTACATCTCGCCTGACCA
GCTGGCTGACCTGTACAAGTCCTTCATCAAGGACTACCCAGTGGTGTCTATCGAAGATCCCTTTGACCAGGATGA
CTGGGGAGCTTGGCAGAAAGTTCACAGCCAGTGCAGGAATCCAGGTAGTGGGGGATGATCTCACAGTGACCAACCC
AAAGAGGATCGCCAAGGCCGTGAACGAGAAGTCCTGCAACTGCCTCCTGCTCAAAGTCAACCAGATTGGCTCCGT
GACCGAGTCTCTTCAGGCGTGCAAGCTGGCCAGGCCAATGGTTGGGGCGTCATGGTGTCTCATCGTTCGGGGGA
GACTGAAGATACCTTCATCGCTGACCTGGTTGTGGGGCTGTGCACTGGGCAGATCAAGACTGGTGCCCTTGCCG
ATCTGAGCGCTTGGCCAAGTACAACCAGCTCCTCAGAATTGAAGAGGAGCTGGGCAGCAAGGCTAAGTTTGCCGG
CAGGAACCTCAGAAACCCCTTGGCCAAG**TAAG**CTGTGGGCAGGCAAGCCCTTCGGTCACCTGTTGGCTACACAGA
CCCCTCCCCTCGTGTGAGCTCAGGCAGCTCGAGGCCCCCGACCAACACTTGCAAGGGGTCCCTGCTAGTTAGCGCC
CCACCGCCGTGGAGTTCGTACCGCTTCCTTAGAACTTCTACAGAAGCCAAGCTCCCTGGAGCCCTGTTGGCAGCT
CTAGCTTTGAGTCGTGTAATTGGCCCAAGTCATTGTTTTTCTCGCCTCACTTTCCACCAAGTGTCTAGAGTCAT
GTGAGCCTCGTGTCACTCCGGGGTGGCCACAGGCTAGATCCCCGGTGGTTTTGTGCTCAAAATAAAAAGCCTCA
GTGACCCATGAG

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FIGURE 1159

MSILKIHAREIFDSRGNPTVEVDLFTSKGLFRAAVPSGASTGIYEALERDNDKTRYMGKGVSKAVEHINKTIAP
ALVSKKLVNTEQEKIDKLMIEMDGTENKSKFGANAILGVSLAVCKAGAVEKGVPLYRHIADLAGNSEVILPVPAF
NVIINGGSHAGNKLAMQEFMILPVGAANFREAMRIGAEVYHNLKNVIKEKYGKDATNVGDEGGFAPNILENKEGLE
LLKTAIGKAGYTDKVVIGMDVAASEFFRSGKYDLDFKSPDDPSRYISPDQLADLYKSFIKDYPVVSIEDPFDQDD
WGAWQKFTASAGIQVVGDDLTVTNPKRIAKAVNEKSCNCLLLKVNQIGSVTESLQACKLAQANGWGMVSHRSGE
TEDTFIADLVVGLCTGQIKTGAPCRSERLAKYNQLLRIEEEELGSKAKFAGRNFNRNPLAK

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FIGURE 1160

AGCGCACGTCGGCAGTCGGCTCCCTCGTTGACCGAATCACCGACCTCTCTCCCCAGCTGTATTTCCAAAATGTCG
CTTTCTAACAAGCTGACGCTGGACAAGCTGGACGTTAAAGGGAAGCGGGTCGTTATGAGAGTCGACTTCAATGTT
CCTATGAAGAACAACCAGATAACAAACAACCAGAGGATTAAGGCTGCTGTCCCAAGCATCAAATTTCTGCTTGGAC
AATGGAGCCAAGTCGGTAGTCCTTATGAGCCACCTAGGCCGGCCTGATGGTGTGCCCATGCCTGACAAGTACTCC
TTAGAGCCAGTTGCTGTAGAACTCAAATCTCTGCTGGGCAAGGATGTTCTGTTCTTGAAGGACTGTGTAGGCCCA
GAAGTGGAGAAAAGCCTGTGCCAACCAGCTGCTGGGTCTGTCACTCTGCTGGAGAACCCTCCGCTTTTCATGTGGAG
GAAGAAGGGAAGGGAAGATGCTTCTGGGAACAAGGTTAAAGCCGAGCCAGCCAAAATAGAAGCTTTCCGAGCT
TCACTTTCCAAGCTAGGGGATGTCTATGTCAATGATGCTTTTGGCACTGCTCACAGAGCCCACAGCTCCATGGTA
GGAGTCAATCTGCCACAGAAGGCTGGTGGGTTTTTGATGAAGAAGGAGCTGAACACTTTGCAAAGGCCTTGGAG
AGCCCAGAGCGACCTTCTGGCCATCCTGGGCGGAGCTAAAGTTGCAGACAAGATCCAGCTCATCAATAATATG
CTGGACAAAGTCAATGAGATGATTATTGGTGGTGGAAATGGCTTTTACCTTCCCTTAAGGTGCTCAACAACATGGAG
ATTGGCACTTCTCTGTTTGTATGAAGAGGGAGCCAAGATTGTCAAAGACCTAATGTCCAAAGCTGAGAAGAATGGT
GTGAAGATTACCTTGCCTGTTGACTTTGTCACTGCTGACAAGTTTGTATGAGAATGCCAAGACTGGCCAAGCCACT
GTGGCTTCTGGCATACTGCTGGCTGGATGGGCTTGGACTGTGGTCCTGAAAGCAGCAAGAAGTATGCTGAGGCT
GTCACCTCGGGCTAAGCAGATTGTGTGGAATGGTCCTGTGGGGGTATTTGAATGGGAAGCTTTTGCCCGGGGAACC
AAAGCTCTCATGGATGAGGTGGTGAAGCCACTTCTAGGGGCTGCATCACCATCATAGGTGGTGGAGACACTGCC
ACTTGCTGTGCCAATGGAACACGGAGGATAAAGTCAGCCATGTGAGCACTGGGGGTGGTGCCAGTTTGGAGCTC
CTGGAAGGTAAAGTCCTTCTGGGGTGGATGCTCTCAGCAATATTTAGTACTTTTCTGCCTTTTAGTTCTGTGC
ACAGCCCCTAAGTCAACTTAGCATTTTCTGCATCTCCACTTGGCATTAGCTAAAACCTTCCATGTCAAGATTAG
CTAGTGGCCAAGAGATGCAGTGCCAGGAACCTTAAACAGTTGCACAGCATCTCAGCTCATCTTCACTGCACCTT
GGATTTGCATACATTCTTCAAGATCCCATTTGAATTTTTTAGTGACTAAACCATTGTGCATTCTAGAGTGCATAT
ATTTATATTTTGCCTGTTAAAAAGAAAGTGAGCAGTGTTAGCTTAGTTCTCTTTTGTATGTAGGTATTATGATTA
GCTTTGTCACTGTTTCACTACTCAGCATGGAAACAAGATGAAATTCATTTGTAGGTAGTGAGACAAAATTGATG
ATCCATTAAGTAAACAATAAAAGTGTCCATTGAAACCGTGATTTTTTTTTTTTTTCTGTCTACTTTGTTAGGAA
GGGTGAGAATAGAATCTTGAGGAACGGATCAGATGTCTATATTGCTGAATGCAAGAAGTGGGGCAGCAGCAGTGG
AGAGATGGGACAATTAGATAAATGTCCATTCTTTATCAAGGGCCTACTTTATGGCAGACATTGTGCTAGTGCTTT
TATTCTAAGTTTTATTTTTATCAGTTACACATGATCATAATTTAAAAAGTCAAGGCTTATAACAAAAAAGCCCCA
GCCCCATTCTCCATTCAAGATTCCCACTCCCCAGAGGTGACCACTTTCAACTCTTGAGTTTTTCAGGTATATAC
CTCCATGTTTCTAAGTAATATGCTTATATTGTTCACTTCTTTTTTTTTTTTTTAAAGAAATCTATTTTCATAC
CATGGAGGAAGGCTCTGTTCCACATATATTTCCACTTCTTCATTCTCTCGGTATAGTTTTGTACAAATTATAGAT
TAGATCAAAAGTCTACATAACTAATACAGCTGAGCTATGTAGTATGCTATGATTAAATTTACTTATGTAAAAAAA
AAAAAAAAAAAAA

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FIGURE 1161

MSLSNKLTLDKLDVKGKRVVMRVDFNVPMKNNQITNNQRIKAAVPSIKFCLDNGAKSVVLMShLGRPDGVPMPDK
YSLEPVAVELKSLLGKDVLFLKDCVGPEVEKACANPAAGSVILLENLRFHVEEEGKGKDASGNKVKAEPKIEAF
RASLSKLGDVYVNDAGTAHRAHSSMVGVNLPQKAGGFLMKKELNYFAKALESPERPFLAILGGAKVADKIQLIN
NMLDKVNEMIIGGGMAFTFLKVLNNMEIGTSLFDEEGAKIVKDLMSKAENGVKITLPVDFVTADKFDENAKTGQ
ATVASGIPAGWMGLDCGPESKKYAEAVTRAKQIVWNGPVGVEWEAFARGTKALMDEVVKATSRGCITIIIGGD
TATCCAKWNTEDKVSHVSTGGGASLELLEGGVLPGVDALSNI

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FIGURE 1162

TTTAAAAAGGCAAATGATTTTATTGTTTCGATAATCTTTTAAAAAATAAGAGGAAGGAGTAAAATTAAAGATGAA
AGATGATTTTTATTTCCTTGTGACCTCTATATCCCCCTTCCCCTGCCCTTGGTAAGTAACCTCTTGATGGAGAAAG
GATTAAAGACTCTTATTTAACCAAAAAACAGAGCCAGCTAATCATTTCCAAAGGTTAGTATCTCCCTGCTGACCT
CTTCTTTGGTTTAAATTGAATAAACTATATGTTTCATATTTGTATTTAAAACCACTCAGAATAACATCTTTTCTT
CCTTAGTTAAGGCATTATAAGGGCTATAACTATCATCCATAATAACCAAGGCAATAACTTAGAAAGCTGCTTTGA
TGGGAGTAGAACTTACAAACAAATAAATTCAATAGACCTTTGTCATAAAACCGGTATGAAGAGACAAAGGTAAT
ACCCATATTGTTAAAGGTTACCTCTTACAGTGAAAAAGATCTCTGAGCATTAGCAGTGAGATTTTCATCTG

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FIGURE 1163

GAGTGCGCATGCGCAGAGCGGCCAACCCGTGAGGGAGCGTTTCTGACGCTAGGTCAAGGGCGGTGTTCTGTGTT
CTTAGGGCCCCAGGAGGCGAGTCTGAGTGGAACCTGGCTGGGGTAGGCTGAAAGGTGACTTCGACGCTCTTCTGA
GGCCTCAGACGTGTGTGATGACTGCCCTGTAGAATCAGTGCTGTGACCCGAGTAACAACGCGCGCTTGAGTTGG
TATAAACTCCTGAAGTTTCAGGAATTAGTGACATTCAGGGATGTGGCCATAGACTTCTCTCGGCAGGAGTGGGAA
TACCTGGACCCTAATCAGAGGGACTTATACAGGGATGTGATGTTGGGAACTATAGAAACCTGGTATCACTGGAT
TTGGATTTACAGTGTGAGATAATCAGCTACATAGAAGTACCCACTTATGAAACAGATATATCCTCTACACAACCTT
CAGAGCATATATGAGAGAGAGAACTCTATGAATGTAAGAAATGTCAGAAGAAATTTAGTAGTGGTTATCAACTT
ATTCTACATCACAGGTTTTCATGTCATTGAGAGACCCATGAATGCAAAGAGTGTGGGAAGAACCTTCGTAGTGGC
TATCAACTTACTCTACATCAAAGATTTTCACTGCTGAGAAACCCCTATGAATGTACAGAATGTGGGAAGAACCTT
AGAAGTGGTTATCAGCTGACTGTGCATCAGAGATTTTCACTGCTGAGAAAACCTATGAATGTAGGCAGTGTGGG
AAGGCCCTTTATATATGCCTCACACATTGTTCAACATGAGAGAATTCACACTGGTGGGAAGCCGTATGAATGTCAG
GAGTGTGGGAGGGCCTTTAGTCAAGGTGGACATCTTAGAATTCATCAGAGAGTTCATACTGGCGAAAAACCATAT
AAATGTAAGGAATGTGGGAAGACTTTTAGTAGGCGCTCAAATCTTGTGAACATGGGCAGTTTCATACTGATGAG
AAGCCATACATATGTGAGAAATGTGGAAAGGCCCTTTAGAAGAGGTCAACAGCTTACTGTACATCAGAGAGTTCAC
ACTGGTAAAAAGCTATATGAGTGTAAAGAATGTGGGAAGGGCTATACCACTGCCTCATACTTTCTTCTACATCAG
AGAATTCATAAAGGTGGAAGAACCTATGAATGTAAGGAGTGTAAAGAAACCTTTACTTTGTATAGAAATCTTACT
CGGCATCAGAAATATTCATACTGGTGAGAAACCTTTTTGAATGCAAGCAATGTGGGAAGACCTATACTACTGGTTCA
AACTCTTTCAACATCAGAAAACCTCATACTGGCGAGAAACCCCTATGAATGCAAGGAATGCGGAAAGGCCCTTTAGC
TTGTATGGCTACCTTAAACAACATCAGAAAATTCATACTGGCATGAAACACTTTGAATGTAAGGAGTGTAAAAAA
ACCTTTACTTTGTATAGAAATCTTACTCGACATCAGAAATATTCACACTGGTAAGAAACCTTTTTGAATGTCAGGAA
TGTGGGAAGGCCCTATAGTACTGGCTCAAACCTTATTCAACATCGGAAAACTCATACTGGTGAGAAACCCCTATAAA
TGTAAGGAATGTGGCAAGACCTTTAGCTTGCATGGATATCTTAATCAACATCAGAAAATTCATACTGGTATGAAA
CCCTATGAATGTAAGGTATGTAGAAAAACCTTTACTTTCTATAGAAATCTTACTCTACATCAAAGTATTCATACT
GATGAGAAACCTTTTTGAATGTAAGGAATGTGGGAAGACCTTTAGACGTAGTTCACACCTTACTGCACATCAGAGC
ATTCATGCTGATAAAAAACCCCTATGAATGTAAAGAATGTGGAAAGGCCCTTTAAATGTATGGCTACCTTACCCAA
CATCAGAAAATTCATACTGGTGAGAAACCTTATGAATGTAAAGAATGTGGGAAGGCCCTTCAGTCGTGCTTCAAAC
CTTGTTCAACATGAGAGAATTCATACTGGTGAGAAACCTTATGTGTGTAAGCAGTGTGGGAAACCTTCAGATAT
GGTTCAGCCCTTAAAGCCCATCAGAGAATTCATAGGAGCATAAAAGTGTAAAGACCGTAAAGAGTACGAGCGCGCC
ATTCATCATCAGACAGCCCACTGGTGAGAAATGATGGAATGTTAGTCTTATAGGTATGGCTTTAGCAATTGAG
AGAGTTCAAATGCAGATCTTGCCACATTAGAAAGCATTCAATGTCAGTCCTGTTTTAATGGAATATCTGACTAT
TCAATGGTAAATTAAG

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FIGURE 1164

MLENYRNLVSLDLDLQCEIISYIEVPTYETDISSTQLQSIYEREKLYECKKCKKFSSGYQLILHHRFHVIERPY
ECKECGKNFRSGYQLTLHQRFTGKPYECTECGKNFRSGYQLTVHQRFTGKTYECRQCGKAFIYASHIVQHE
RIHTGGKPYECQECGRAFSQGGHLRIHQRVHTGKPYKCKECGKTFSRRSNLVEHGQFHTDEKPYICEKCGKAFR
RGHQLTVHQRVHTGKKLYECKECGKGYTTASYFLLHQRHKGKPYECKECKKTFTLYRNLTRHQNHTGEKLFE
CKQCGKTYTTGSKLFQHOKTHTGKPYECKECGKAFLYGYLKQHOKIHTGMKHFECCKKTFTLYRNLTRHQN
IHTGKKLFECQECGKAYSTGSNLIQHRKTHHTGKPYKCKECGKTFSLHGYLNQHOKIHTGMKPYECKVCRKTFTF
YRNLTLHQSHTDEKPFECCKGKTFRSSHLTAHQSIHADKKPYECKECGKAFFMYGYLTQHOKIHTGGKPYEC
KECGKAFSRASNLVQHERIHTGKPYVCKQCGKTFRYGSALKAHQRIHRSIKV

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FIGURE 1165A

GCGCCCCGCCCTTTCTCGGCCCCCGGAGGTGACGGGGTGAAGGCGGGGAACCGAGGTGGGGAGTCCGCCAGAGC
TCCCAGACTGCGAGCACGCGAGCCGCGCAGCCGTACCCGCGCCGCGTCACGGCTCCCGGGCCCCGCCCTCCTCT
GACCCCTCCCCTCTCTCCGTTTGGCCCTCTCCCCCTCCTCCGCCGACCGAGCAGTGACTTAAGCAACGGAGCGCG
GTGAAGCTCATTCTCTCCTTCCGCGAGCCGCGCCAGGGAGCTCGCGGCGCGCGGCCCTGTCTCCGGCCCCGA
GATGAATCCTGCGGCAGAAGCCGAGTTCAACATCCTCCTGGCCACCGACTCCTACAAGGTTACTACTATAAACA
ATATCCACCCAACACAAGCAAAGTTTATTCCTACTTTGAATGCCGTGAAAAGAAGACAGAAAACCTCAAATTAAG
GAAGGTGAAATATGAGGAAACAGTATTTTATGGGTTGCAGTACATTCTTAATAAGTACTTAAAAGGTAAAGTAGT
AACCAAAGAGAAAATCCAGGAAGCCAAAGATGTCTACAAAGAACATTTCCAAGATGATGTCTTTAATGAAAAGGG
ATGGAACACTACATTCTTGAGAAAGTATGATGGGCATCTTCCAATAGAAATAAAAGCTGTTTCTGAGGGCTTTGTCAT
TCCCAGAGGAAATGTTCTCTTCACGGTGGAAAACACAGATCCAGAGTGTTACTGGCTTACAAATTGGATTGAGAC
TATTCTTGTTTCAGTCTCGGTATCCAATCACAGTGGCCACAAATTCTAGAGAGCAGAAGAAAATATTGGCCAAATA
TTTGTTAGAAAACCTCTGGTAACTTAGATGGTCTGGAATACAAGTTACATGATTTTGGCTACAGAGGAGTCTCTTC
CCAAGAGACTGCTGGCATAGGAGCATCTGCTCACTTGGTTAACTTCAAAGGAACAGATACAGTAGCAGGACTTGC
TCTAATTAATAAATATTATGGAACGAAAGATCCTGTTCCAGGCTATTCTGTTCCAGCAGCAGAACACAGTACCAT
AACAGCTTGGGGGAAAAGACCATGAAAAGATGCTTTTGAACATATTGTAACACAGTTTTTCATCAGTGCCTGTATC
TGTGGTCAGCGATAGCTATGACATTTATAATGCGTGTGAGAAAATATGGGGTGAAGATCTAAGACATTTAATAGT
ATCGAGAAGTACACAGGCACCACTAATAATCAGACCTGATTCTGGAAACCCTCTTGACACTGTGTTAAAGTTTT
GGAGATTTTAGGTAAGAAGTTTCTGTTACTGAGAACTCAAAGGGTTACAAGTTGCTGCCACCTTATCTTAGAGT
TATTCAAGGGGATGGAGTAGATATTAATACCTTACAAGAGATTGTAGAAGGCATGAAACAAAAAATGTGGAGTAT
TGAAAATATTGCCTTCGTTTCTGGTGGAGGTTTGTACAGAAGTTGACAAGAGATCTCTTGAATTGTTCTTCAA
GTGTAGCTATGTTGTAACATAATGGCCTTGGGATTAACGTCTTCAAGGACCCAGTTGCTGATCCCAACAAAAGGTC
CAAAAAGGGCCGATTATCTTTACATAGGACGCCAGCAGGGAATTTTGTACTACTGGAGGAAGGAAAAGGAGACCT
TGAGGAATATGGTCAGGATCTTCTCCATACTGTCTTCAAGAATGGCAAGGTGACAAAAGCTATTCAATTTGATGA
AATAAGAAAAAATGCACAGCTGAATATTGAACTGGAAGCAGCACATCATT**TAGG**CTTTATGACTGGGTGTGTGTG
TGTGTATGTAATACATAATGTTTATTGTACAGATGTGTGGGGTTTGTGTTTTATGATACATTACAGCCAAATTAT
TTGTTGGTTTATGGACATACTGCCCTTTTCACTTTTCTTTTCCAGTGTTTAGGTGATCTCAAATTAGGAAATG
CATTTAACCATGTAAAAGATGAGTGCTAAAGTAAGCTTTTATGGGCCCTTTGCCAATAGGTAGTCATTCAATCTG
GTATTGATCTTTTACAAAATAACAGAACTGAGAACTTTTATATATACTGATGATCACATAAAACAGATTGCA
TAAAATTACCATGATTGCTTTATGTTTATATTTAACTTGTATTTTGTACAAACAAGATTGTGTAAAGATATATTT
GAAGTTTCAGTGATTTAACAGTCTTTCCAACCTTTTCACTGATTTTATGAGCACAGACTTTCAAGAAAATACTTGA
AAATAAATTACATTGCCTTTTGTCCATTAATCAGCAAATAAAACATGGCCTTAACAAAGTTGTTTGTGTTATTGT
ACAATTTGAAAATTATGTCGGGACATACCCTATAGAATTACTAACCTTACTGCCCTTGTAGAATATGTATTAAT
CATCTACATTAAAGAAAATAATGGTCTTACTGGAATGTCTAGGCACTGTACAGTTATTATATATCTTGGTTGT
TGTATTGTACCAGTGAAATGCCAAATTTGAAAGGCCTGTACTGCAATTTTATATGTCAGAGATTGCCTGTGGCTC
TAATATGCACCTCAAGATTTTAAGGAGATAATGTTTTTAGAGAGAATTTCTGCTTCCACTATAGAATATATACAT
AAATGTAAAATACTTACAAAAGTGGAAGTAGTGTATTTTAAAGTAATTACACTTCTGAATTTATTTTTCATATTC
TATAGTTGGTATGACTTAAATGAATTACTGGAGTGGGTAGTGAGTGTACTTAAATGTTTCAATTCGTATATTT
TTTATTAAGTTTTTTAAAAAATTAAATTGGATATTAAATTGTATGGACATCATTTATTAATTTTAACTGAATGCC
CTCAATAAGTAATACTGAAGCACATTCTTAAATGAAGATAAATTATCTCCAATGAAAAGCATGACATGTGTTTCA
ATAGAAGAATCTTAAGTTGGCTAAATTCAAAGTGCTTGACATCAAAATGTTCTAGAGTGATTAGCTACTAGATTCT
TGAATCATACATCACATCTGACTAGAGACCAGTTTCTTTTCAAGTATTCTTTTATGTATGTAGATCTGTTCTTCT
GAGGCAGCGGTTGGCCAACCTATAGCCCAAAGGCCAAATTTGGACTTCTTTTATAAATGCAGATTGTCTATGGCT
GCTTTCCCACTACTCCAGCCTAAGGTAAACAGCTGCAATAGAAGCCAAATGAGAATCGCAAAGGCCCAAATGTTT
ATTAACCTGCCCTTTACACAAAATCACACAAAAGTTTCTGATCTCTGTTCTAAGAAAAGGAGTGTGCCTTGCA
TTTAAAAGGAAATGTTGGTTTCTAGGGAAGGGAGGAGGCTAAATAATTGATACGGAATTTTCTCTTTTGTCTTC
TTTTTCTCACTTAAGAATCCGATACTGGAAGACTGATTTAGAAAAGTTTTAACATGACATTAAATGTGAAATT
TTAAAATTGAAAAGCCATAAATCATCTGTTTTAAATAGTTACATGAGAAAATGATCACTAGAATAACCTAATTA
GAAGTGTTATCTTCATTAAATGTTTTTTGTAAGTGGTATTAGAAAAGATATGTTTTTCAGATGGTCTTTAAACA

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FIGURE 1165B

TGTAGTGAGAACAAATAAGCATTATTCACTTTTAGTAAGTCTTCTGTAATCCATGATATAAAATAATTTTAAAAATG
ATTTTTTAATGTATTTGAGTAAAGATGAGTAGTATTAAGAAAAACACACATTTCTTCACAAAATGTGCTAAGGGG
CGTGTAAGAATCAAAGAACTATTACCAATAATAGTTTTGATAATCACCATAATTTTGTGTTTAAACATTGA
AATTATAGTACAGACAGTATTCTCTGTGTTCTGTGAATTTCAGCAGCTTCAGAATAGAGTTTAATTTAGAAATTT
GCAGTGAAAAAGCTATCTCTTTGTTACAACCATAAATCAGGAGATGGAGATTAAATCTATTGGCTCTTAGTCA
CTTGGAAGTGAATTAATCTGACTTTCTGTCACTAAGCACTTGGTATTTGGCCATCTCCATTCTGAGCACCAAACG
GTTAACACGAATGTCCACTAGAACTCTGCTGTGTGTCACCCTTAAATCAGTCTAAATCTTCAGACAAAAGCAAA
TGGCATTATGGAATTAAGTCATTAGATTTCAACTGACATTAATTAATCCCTCTTGATTGATTATATCATCAAG
TATTTATATCTTAAATAGGAGGTAGGATTTCTGTGTTAAGACTCTTATTTGTACCCTATAATTAAAGTAAAATGT
TTTTTATGAGTATCCCTTGTTTTCCCTTCTTAAATTGTTATCAAACAATTTTTATAATGAAATCTATCTTGGA
ATTAGAAAGAAAAATGGCAAGGTATTTATTGTTCTGTTTGCCATAATTTAGAACTCACACTTAAGTATTTGTAG
TTTACATTCCTTTTTAACCATTTCAGTGGAGAATGTCAGCTTTTCTCCAAGTTGTATGTTAAGTCTATTCTAA
TATGTACTCAACATCAAGTTATAAACATGTAATAAACATGGAAATAAAGTTTAGCTCTATTAGTGAAGTGTAA

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FIGURE 1166

MNPAAEAEFNILLATDSYKVTHYKQYPPNTSKVYSYFECREKKTENSKLRKVKEYEETVFYGLQYILNKYLKGVV
TKEKIQEAKDVYKEHFQDDVFNEKGWNYILEKYDGHLP IEIKAVPEGFVIPRGNVLF TVENTDPECYWLTNWIET
ILVQSWYPITVATNSREQKILAKYLLETSGNLDGLEYLEYKLHDFGYRGVSSQETAGIGASAHLVNFKGTDTVAGLA
LIKYYGTDKDPVPGYSVPAAEHSTITAWGKDHEKDAFEHIVTQFSSVPVSVVSDSYDIYNACEKIWGEDLRHLIV
SRSTQAPLIIRPD SGNPLDTVLKVLEILGKKFPVTENSKGYKLLPPYLRVIQGDGVDINTLQEIVEGMKQKMWSI
ENIAFGSGGGLLQKLTRDLLNCSFKCSYVVTNGLGINVFKDPVADPNKRSKKGRLSLHRT PAGNFVTLEEGKGD
EEYGQDLLHTVFKNGKVTKSYSFDEIRKNAQLNIELEAAHH

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FIGURE 1167

CGCGCGGCCCTGTCTCCGGCCCCGAGATGAATCCTGCGGCAGAAGCCGAGTTCAACATCCTCCTGGCCACCGAC
TCCTACAAGGTTACTCACTATAAACAATATCCACCCAACACAAGCAAAGTTTATTCTACTTTGAATGCCGTGAA
AAGAAGACAGAAAACCTCCAAATTAAGGAAGGTGAAATATGAGGAAAACAGTATTTTATGGGTTGCAGTACATTCTT
AATAAGTACTTAAAAGGTAAAGTAGTAACCAAAGAGAAAATCCAGGAAGCCAAAGATGTCTACAAAGAACATTTT
CAAGATGATGTCTTTAATGAAAAGGGATGGAACACTACATTCTTGAGAAGTATGATGGGCATCTTCCAATAGAAATA
AAAGCTGTTTCTGAGGGCTTTGTCTATCCAGAGGAAATGTTCTCTTACGGTGGAACACAGATCCAGAGTGT
TACTGGCTTACAAATTGGATTGAGACTATTCTTGTTTCAGTCTGGTATCCAATCACAGTGGCCACAAATTCTAGA
GAGCAGAAGAAAATATTGGCCAAATATTTGTTAGAACTTCTGGTAACTTAGATGGTCTGGAATACAAGTTACAT
GATTTTGGCTACAGAGGAGTCTCTTCCCAAGAGACTGCTGGCATAGGAGCATCTGCTCACTTGGTTAACTTCAAA
GGAACAGATACAGTAGCAGGACTTGCTCTAATTAATAAATATTATGGAACGAAAGATCCTGTTCCAGGCTATTCT
GTTCCAGCAGCAGAACACAGTACCATAACAGCTTGGGGGAAAGACCATGAAAAGATGCTTTTGAACATATTGTA
ACACAGTTTTTCATCAGTGCCTGTATCTGTGGTCAGCGATAGCTATGACATTTATAATGCGTGTGAGAAAATATGG
GGTGAAGATCTAAGACATTTAATAGTATCGAGAAGTACACAGGCACCCTAATAATCAGACCTGATTCTGGAAAC
CCTCTTGACACTGTGTTAAAGGTTTTGGAGATTTTAGGTAAGAAGTTTCTGTTACTGAGAACTCAAAGGGTTAC
AAGTTGCTGCCACCTTATCTTAGAGTTATTCAAGGGGATGGAGTAGATATTAATACCTTACAAGAGATTGTAGAA
GGCATGAAACAAAAATGTGGAGTATTGAAAATATTGCCTTCGGTTCTGGTGGAGGTTTGCTACAGAAGTTGACA
AGAGATCTCTGAATTGTTTCTTCAAGTGTAGCTATGTTGTAACATAATGGCCTTGGGATTAACGTCTTCAAGGAC
CCAGTTGCTGATCCCAACAAAAGGTCCAAAAAGGGCCGATTATCTTTACATAGGACGCCAGCAGGGAATTTTGT
ACACTGGAGGAAGGAAAAGGAGACCTTGAGGAATATGGTCAGGATCTTCTCCATACTGTCTTCAAGAATGGCAAG
GTGACAAAAGCTATTTCATTTGATGAAATAAGAAAAAATGCACAGCTGAATATTGAACTGGAAGCAGCACATCAT
TAGGCTTTTATGACTGGGTGTGTGTGTGTGTGTATGTAATACATAATGTTTATTGTACAGATGTGTGGGGTTTGTGT
TTTATGATACATTACAGCCAAATTATTTGTTGGTTTATGGACATACTGCCCTTTCATTTTTTTTCTTTTCCAGTG
TTTAGGTGATCTCAAATTAGGAAATGCATTTAACCATGTAAGAGATGAGTGCTAAAGTAAGCTTTTATAGGGCCCT
TTGCCAATAGGTAGTCATTCAATCTGGTATTGATCTTTTACAAATAACAGAACTGAGAACTTTTATATATAAC
TGATGATCACATAAAACAGATTTGCATAAAATTACCATGATTGCTTTATGTTTATATTTAACTTGTATTTTGT
CAAACAAGATTGTGTAAGATATATTTGAAGTTTCAGTGATTTAACAGTCTTTCCAACCTTTTCATGATTTTATGA
GCACAGACTTTCAAGAAAATACTTGAAAATAAATTACATTGCCTTTTGTCCATTAATCAGCAAAATAAAACATGGC
CTTAACAAAGTTGTTTGTGTTATTGTACAATTTGAAAATTATGTCGGGACATACCCTATAGAATTACTAACCTTA
CTGCCCCCTTGTAGAATATGTATTAATCATTCTACATTAAAGAAAATAATGGTTCTTACTGGAATGTCTAGGCACT
GTACAGTTATTATATATCTTGGTTGTTGTATTGTACCAGTGAAATGCCAAATTTGAAAGGCCTGTACTGCAATTT
TATATGTCAGAGATTGCCTGTGGCTCTAATATGCACCTCAAGATTTTAAAGGAGATAATGTTTTTAGAGAGAATTT
CTGCTTCCACTATAGAATATATACATAAATGTAAATACTTACAAAAGTGG

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FIGURE 1168

MNPAAEAEFNILLATDSYKVTYKQYPNTSKVYSYFECREKKTENSKLRKVKEYEETVFYGLQYILNKYLK GKVV
TKEKIQEAKDVYKEHFQDDVFNEKGWNYILEKYDGHLP I E I KAVPEGFVIPRG NVLFTVENTDPECYWLTNWIET
ILVQSWYPITVATNSREQKKILAKYLLETSGNLDGLE YKLHDFGYRGVSSQETAGIGASAHLVNFKGTDTVAGLA
LIKYYGTDKDPVPGYSVPAAEHSTITAWGKDHEKDAFEHIVTQFSSVPVSVVSDSYDIYNACEKIWGEDLRHLIV
SRSTQAPLIIRPD SGNPLD TVLKVLEILGKKFPVTENSKGYKLLPPYLRVIQGDGVDINTLQEIVEGMKQKMWSI
ENIAFGSGGGLLQKLTRDLLNCSFKCSYVVTNGLGINVFKDPVADPNKRSKKGRLSLHRTFAGNFV TLEEGK GDL
EEYGQDLLHTVFKNGKVTKSYSFDEIRKNAQLNIELEAAHH

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FIGURE 1169

GCGGCCGCCGGTCCCTCCCTCCACCTCCTCCTCGGCCCCCCCTCGCTTCCCTCCTCCCACTTCCCGAGCTCCGGCG
TCGTCCCGGCCACGCTCGACGCTGCTGCAGGAACAAAGGAAGACCCCGCGCGGCGGCGGCCACCTCCGCCTG
CTGCTCCGACCCGCTCCCGGCCCGCGCGGCGGCACCAGGGCGCCCGGCTCAGCCTTCCCGGAGGCCTCGGCCCCG
GCCTCATCGTGCCGGCTTCGCGCGCGAACCCGGCTTTTCGCATTTGGGACCCTGCAGGAAAAATATGGCTCAGGAG
ACTAACCAGACCCCGGGGCCCATGCTGTGTAGCACAGGATGTGGCTTTTATGGAAATCCTAGGACAAATGGAATG
TGTTTCAGTTTGCTACAAAGAACATCTTCAGAGGCAGCAAAATAGTGGCAGAATGAGCCCAATGGGGACAGCTAGT
GGTTCCAACAGTCCTACCTCAGATTCTGCATCTGTACAGAGAGCAGACACTAGCTTAAACAACGTGTGAAGGTGCT
GCTGGCAGCACATCTGAAAAATCAAGAAATGTGCCTGTGGCTGCCTTGCTGTAACTCAGCAAAATGACAGAAATG
AGCATTTCAGAGAGGACAAAATAACTACCCCGAAAACAGAGGTGTGAGAGCCAGTTGTCACTCAGCCCAGTCCA
TCAGTTTCTCAGCCCAGTACTTCTCAGAGTGAAGAAAAAGCTCCTGAATTGCCCAAACCAAGAAAAACAGATGT
TTCATGTGCAGAAAGAAAGTTGGTCTTACAGGGTTTGACTGCCGATGTGGAAATTTGTTTTGTGGACTTCACCGT
TACTCTGACAAGCACAACTGTCCGTATGATTACAAAGCAGAAGCTGCAGCAAAAATCAGAAAAAGAGAATCCAGTT
GTTGTGGCTGAAAAAATTCAGAGAATAATAATTACTTCTTGTGAAGAGACTGAAACTTTGTTTTATTTAATAT
ATCGTAGGAAAACATTAAAGAGCAGATGCATGGCCATTTTTCTTTGATGTTCTCCAGAGTTTTACATTACACTTG
TCTGTCTTATAATTGATATTTTAGGATGTTTGGGTGTTTGTACAGGCAGAATTGGATAGATACAGCCCTACAAA
TGTATATGCCCTCCCCTGAAAAAATTTGGATGAAAATCTGCACAGCAAAAGTGAAACACACAGATAATAGGAACAA
AATGTAGTTCCCATGTGCCAAACAAAATAAATGAAATCTCTGCATGTTTGCAGCATATCTGCCTTTTGGGAATGT
AATCAAGGTATAATCTTTGGCTAGTGTATGTGCCTGTATTTTTTTAAATGGTACACCAGAAAAGGACTGGCAG
TCTACTTCTACCATAGTTAAACTTCACCCCTCTTTAATTTTACAACATATTCTTTGGAAGCAGGAAGAAATGCTCA
TAAAGAGGATCAGACCTTCTTTCCCGTGAAACCAGTATTTGGCGCCATATATAAGCCTGGTTAAATTGGTCATCT
AAAGCTGTCAAATAAGACATTCTGTGAAAGGTAAACATCGAAACTGGTTATAAGTAAAACCATCAAGCCAACAAC
AGGGTCTTGAGATAACCTTTGAAGCTTATTGTACTGGCCTGCACCAGAAGATGTCTGCATTACTCATTGCTAAAA
ATGTGTAGCACAGAAGTGCCTAGGATTAATTTGTTTACAAGAAGAAATTTAAACTCTACGTTTGGTTTTTCACAT
ACAGCAGCTCTATTGAATAACATGCATCTGAATTTTAAAGTTGCAAAGGTATCTGAATAATTTTTCATGTGCATCT
TTTGTGCAATGTTTTGGTTCAAGAAAGAATGTTTAAAGCTTTTTTAAAGACTTCAGTTCTTAATGTAAGTGTACC
CTTCTGCATGGAATAATCATAACCAACATGGCTGCAGTAGACTTCTTAGTGGTATCCAGCGCCACTTGCAGAGGGC
TGCTTTATCATATTGTACTTGGGTGTAGGACTCTAGTGTTCTTGGGTGTATTGCATGGGCTGCATTATCTACAGC
ATTGTACAATAACAAGTAAAGGCAGTATACTTCACTGATGCTTGTCTGGTAATAATCACTTCTGTGTTATAA
TGGAAGGTTTTTTGTGATGTATGAACTTGTGTTTTTATATATAAATGAGTATAGTTAGTGTGTGGTAATGCC
TGTTTTCATCTGTAAATAGTTAAGTATGTACACGAGGCACTACTTCTGATTTATTGCAATGTTTCACTAGTTT
TTACTTTTATTCTTAAAGCATTAGTTTTGCTTTCAATTTTATGTACCTTAGTTCTGAGTTAGACCTGCAGATGT
GTACAGATAGTTTATATTTATGTATTGCACATAATCATGCTATTTCAGCATTGATGCTATATTGTATTATGTAAT
AATAAAAGCCATGTACAGAGGGAAA

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FIGURE 1170

MAQETNQTPGPMLCSTGCGFYGNPRTNGMCSVCYKEHLQRQQNSGRMSPMGTAAGSNGSPTSDSASVQRADTSLNN
CEGAAGSTSEKSRNVPVAALPVTQQMTEMSISREDKITTPKTEVSEPVVVTQPSPSVSQPSTSQSEEKAPELPKPK
KNRCFMCRKKVGLTGFDRCGNLFCGLHRYSDKHNCPTYDYKAEAAAKIRKENPVVVAEKIQRI

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FIGURE 1171

TGCAGCGGTGGTCGGCTGTTGGGTGTGGAGTTTCCCAGCGCCCCTCGGGTCCGACCCTTTGAGCGTTCTGCTCCG
GCGCCAGCCTACCTCGCTCCTCGGCGCCATGACCACAACCACCACCTTCAAGGGAGTCGACCCCAACAGCAGGAA
TAGCTCCCGAGTTTTGCGGCCTCCAGGTGGTGGATCCAATTTTTTCATTAGGTTTTGATGAACCAACAGAACAACC
TGTGAGGAAGAACAAAATGGCCTCTAATATCTTTGGGACACCTGAAGAAAATCAAGCTTCTTGGGCCAAGTCAGC
AGGTGCCAAGTCTAGTGGTGGCAGGGAAGACTTGGAGTCATCTGGACTGCAGAGAAGGAACCTCTGAAGCAAG
CTCCGGAGACTTCTTAGATCTGAAGGGAGAAGGTGATATTCATGAAAATGTGGACACAGACTTGCCAGGCAGCCT
GGGGCAGAGTGAAGAGAAGCCCGTGCTGCTGCGCCTGTGCCAGCCCGGTGGCCCCGGCCCCAGTGCCATCCAG
AAGAAATCCCCCTGGCGGCAAGTCCAGCCTCGTCTTGGGTTAGCTCTGACTGTCCTGAACGCTGTCGTTCTGTCT
GTTTCCTCCATGCTTGAGAACTGCACAACCTTGAGCCTGACTGTACATCTTCTTGGATTTGTTTCATTAAAAAGAA
GCACTTTATGTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1172

MTTTTTFKGVDPNSRNSSRVLRPPGGGSNFSLGFDPEPTEQPVRKNKMASNIFGTPEENQASWAKSAGAKSSGGRE
DLESSGLQRRNSSEASSGDFDLKGECDIHENVDTDLPGSLGQSEKPVPAAPVPSVPAPVPSRRNPPGKSS
LVLG

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FIGURE 1173A

CTCCTCCCCATCCTCTCCCTCTGTCCCTCTGTCCCTCTGACCCTGCACTGTCCCAGCACCATGGGACCCACCTCA
GGTCCCAGCCTGCTGCTCCTGCTACTAACCACCTCCCCCTGGCTCTGGGGAGTCCCATGTACTCTATCATCACC
CCCAACATCTTGCGGCTGGAGAGCGAGGAGACCATGGTGTGGAGGCCACGACGCGCAAGGGGATGTTCCAGTC
ACTGTTACTGTCCACGACTTCCCAGGCAAAAACTAGTGCTGTCCAGTGAGAAGACTGTGCTGACCCCTGCCACC
AACCACATGGGCAACGTACCTTCACGATCCCAGCCAACAGGGAGTTCAAGTCAGAAAAGGGGCGCAACAAGTTC
GTGACCGTGCAGGCCACCTTCGGGACCCAAGTGGTGGAGAAGGTGGTGTGCTGGTCAGCCTGCAGAGCGGGTACCTC
TTCATCCAGACAGACAAGACCATCTACACCCCTGGCTCCACAGTTCTCTATCGGATCTTCACCGTCAACCACAAG
CTGCTACCCGTGGGCGGACGGTCATGGTCAACATTGAGAACCCGGAAGGCATCCCGGTCAAGCAGGACTCCTTG
TCTTCTCAGAACCAGCTTGGCGTCTTGCCCTTGTCTTGGGACATTCCGGAACCTCGTCAACATGGGCCAGTGGAAG
ATCCGAGCCTACTATGAAAACCTACCACAGCAGGTCTTCTCCACTGAGTTTGAGGTGAAGGAGTACGTGCTGCCC
AGTTTTCGAGGTACATAGTGGAGCCTACAGAGAAATTCTACTACATCTATAACGAGAAGGGCCTGGAGGTACCATC
ACCGCCAGGTTTCTCTACGGGAAGAAAGTGGAGGGAACTGCCTTTGTCTCTTCGGGATCCAGGATGGCGAACAG
AGGATTTCCCTGCCTGAATCCCTCAAGCGCATTCCGATTGAGGATGGCTCGGGGGAGGTTGTGCTGAGCCGGAAG
GTACTGCTGGACGGGGTGCAGAACCTCCGAGCAGAAGACCTGGTGGGGAAAGTCTTTGTACGTGTCTGCCACCGTC
ATCTTGCACTCAGGCAGTGACATGGTGCAGGCAGAGCGCAGCGGGATCCCCATCGTGACCTCTCCCTACCAGATC
CACTTCACCAAGACACCCAAGTACTTCAAACCAGGAATGCCCTTTGACCTCATGGTGTTCGTGACGAACCTGAT
GGCTCTCCAGCCTACCGAGTCCCCGTGGCAGTCCAGGGCGAGGACACTGTGCAGTCTCTAACCCAGGGAGATGGC
GTGGCCAAACTCAGCATCAACACACACCCCCAGCCAGAAGCCCTTGAGCATCACGGTGCACGACGAAGAAGCAGGAG
CTCTCGGAGGCAGAGCAGGCTACCAGGACCATGCAGGCTCTGCCCTACAGCACCGTGGGCAACTCCAACAATTAC
CTGCATCTCTCAGTGCTACGTACAGAGCTCAGACCCGGGGAGACCCTCAACGTCAACTTCCTCCTGCGAATGGAC
CGCGCCACAGAGGCCAAGATCCGCTACTACACCTACCTGATCATGAACAAGGGCAGGCTGTTGAAGCGGGACGC
CAGGTGCGAGAGCCCCGGCCAGGACCTGGTGGTGTGCCCCCTGTCCATCACCACCGACTTCATCCCTTCCCTTCCGC
CTGGTGGCGTACTACACGCTGATCGGTGCCAGCGGCCAGAGGGAGGTGGTGGCCGACTCCGTGTGGGTGGACGTC
AAGGACTCCTGCGTGGGCTCGCTGGTGGTAAAAAGCGGCCAGTCAGAAGACCGGCAGCCTGTACCTGGGCAGCAG
ATGACCCTGAAGATAGAGGGTGACCACGGGGCCCGGTGGTACTGGTGGCCGTGGACAAGGGCGTGTTCGTGCTG
AATAAGAAGAACAACTGACGCAGAGTAAGATCTGGGACGTGGTGGAGAAGGCAGACATCGGCTGCACCCCGGGC
AGTGGGAAGGATTACGCCGTGTCTTCTCCGACGCAGGGCTGACCTTCACGAGCAGCAGTGGCCAGCAGACCGCC
CAGAGGGCAGAACTTCAGTGCCCGCAGCCAGCCGCCCGCCGACGCCGTTCCGTGCAGCTCACGGAGAAGCGAATG
GACAAAGTCGGCAAGTACCCCAAGGAGCTGCGCAAGTGCTGCGAGGACGGCATGCGGGAGAACCCCATGAGGTTT
TCGTGCCAGCGCCGGACCCGTTTCATCTCCCTGGGCGAGGCGTGCAAGAAGGTCTTCCTGGACTGCTGCAACTAC
ATCACAGAGCTGCGGCGGCAGCACGCGCGGGCCAGCCACCTGGGCCTGGCCAGGAGTAACCTGGATGAGGACATC
ATTGCAGAAGAGAACATCGTTTCCCGAAGTGAGTTCCAGAGAGCTGGCTGTGGAACGTTGAGGACTTGAAAGAG
CCACCGAAAAATGGAATCTCTACGAAGCTCATGAATATATTTTTGAAAGACTCCATCACCACGTGGGAGATTCTG
GCTGTGAGCATGTGCGACAAGAAAGGGATCTGTGTGGCAGACCCCTTCGAGGTACAGTAATGCAGGACTTCTTC
ATCGACCTGCGGCTACCCTACTCTGTTGTTGAAACGAGCAGGTGGAAATCCGAGCCGTTCTCTACAATTACCGG
CAGAACCAAGAGCTCAAGGTGAGGGTGGAACTACTCCACAATCCAGCCTTCTGCAGCCTGGCCACCACCAAGAGG
CGTACCAGCAGACCGTAACCATCCCCCAGTCCCTCGTTGTCCGTTCCATATGTCATCGTGCCGCTAAAGACC
GGCCTGCAGGAAGTGGAAGTCAAGGCTGCCGTCTACCATCATTTTCATCAGTGACGGTGTGAGGAAGTCCCTGAAG
GTCGTGCCGGAAGGAATCAGAATGAACAACTGTGGCTGTTTCGCACCCTGGATCCAGAACGCCTGGGCCGTGAA
GGAGTGAGAAAGAGGACATCCCACCTGCAGACCTCAGTGACCAAGTCCCGGACACCGAGTCTGAGACCAGAAAT
CTCCTGCAAGGGACCCAGTGGCCAGATGACAGAGGATGCCGTGACGCGGAACGGCTGAAGCACCTCATTGTG
ACCCCTCGGGCTGCGGGGAACAGAACATGATCGGCATGACGCCACGGTCATCGCTGTGCATTACCTGGATGAA
ACGGAGCAGTGGGAGAAGTTGGCCCTAGAGAAGCGGCAGGGGGCCTTGGAGCTCATCAAGAAGGGGTACACCCAG
CAGCTGGCCTTCAGACAACCCAGCTCTGCCTTTGCGGCCTTCGTGAAACGGGCACCCAGCACCTGGCTGACCGCC
TACGTGGTCAAGGTCTTCTCTCTGGCTGTCAACCTCATCGCCATCGACTCCCAAGTCTCTGCGGGGCTGTAA
TGGCTGATCCTGGAGAAGCAGAAGCCCGACGGGGTCTTCCAGGAGGATGCGCCCGTGATACCAAGAAATGATT
GGTGGATTACGGAACAACAAGAGAAAGACATGGCCCTCACGGCCTTTGTTCTCATCTCGCTGCAGGAGGCTAAA
GATATTTGCGAGGAGCAGGTCAACAGCCTGCCAGGCAGCATCACTAAAGCAGGAGACTTCCTTGAAGCCAACCTAC

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FIGURE 1173B

ATGAACCTACAGAGATCCTACACTGTGGCCATTGCTGGCTATGCTCTGGCCCAGATGGGCAGGCTGAAGGGGCCT
CTTCTTAACAAATTTCTGACCACAGCCAAAAGATAAGAACCGCTGGGAGGACCCTGGTAAGCAGCTCTACAACGTG
GAGGCCACATCCTATGCCCTCTTGGCCCTACTGCAGCTAAAAGACTTTGACTTTGTGCCTCCCGTCGTGCGTTGG
CTCAATGAACAGAGATACTACGGTGGTGGCTATGGCTCTACCCAGGCCACCTTCATGGTGTTCCAAGCCTTGGCT
CAATACCAAAGGACGCCCCCTGACCACCAGGAAGTGAACCTTGATGTGTCCCTCCAAGTGGCCAGCCGACAGCTCC
AAGATCACCCACCGTATCCACTGGGAATCTGCCAGCCTCCTGCGATCAGAAGAGACCAAGGAAAATGAGGGTTTC
ACAGTCACAGCTGAAGGAAAAGGCCAAGGCACCTTGTCGGTGGTGACAATGTACCATGCTAAGGCCAAAGATCAA
CTCACCTGTAATAAATTCGACCTCAAGGTCACCATAAAACCAGCACCGGAAACAGAAAAGAGGCCTCAGGATGCC
AAGAACACTATGATCCTTGAGATCTGTACCAGGTACCGGGGAGACCAGGATGCCACTATGTCTATATTGGACATA
TCCATGATGACTGGCTTTGCTCCAGACACAGATGACCTGAAGCAGCTGGCCAATGGTGTTGACAGATACATCTCC
AAGTATGAGCTGGACAAAGCCTTCTCCGATAGGAACACCCTCATCATCTACCTGGACAAGGTCTCACACTCTGAG
GATGACTGTCTAGCTTTCAAAGTTCACCAATACTTTAATGTAGAGCTTATCCAGCCTGGAGCAGTCAAGGTCTAC
GCCTATTACAACCTGGAGGAAAGCTGTACCCGGTTCTACCATCCGAAAAGGAGGATGGAAAGCTGAACAAGCTC
TGCCGTGATGAAGTGTGCCGCTGTGCTGAGGAGAATTGCTTCATACAAAAGTCGGATGACAAGGTACCCCTGGAA
GAACGGCTGGACAAGGCCTGTGAGCCAGGAGTGGACTATGTGTACAAGACCCGACTGGTCAAGGTTTCAAGCTGTCC
AATGACTTTGACGAGTACATCATGGCCATTGAGCAGACCATCAAGTCAGGCTCGGATGAGGTGCAGGTTGGACAG
CAGCGCACGTTTATCAGCCCCATCAAGTGCAGAGAAGCCCTGAAGCTGGAGGAGAAGAAACTACCTCATGTGG
GGTCTCTCCTCCGATTTCTGGGGAGAGAAGCCCAACCTCAGCTACATCATCGGGAAGGACACTTGGGTGGAGCAC
TGGCCTGAGGAGGACGAATGCCAAGACGAAGAGAACCAGAAACAATGCCAGGACCTCGGCGCCTTCACCGAGAGC
ATGGTTGTCTTTGGGTGCCCCAACTTGACCCACACCCCCATTCC

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FIGURE 1174

MGPTSGPSLLLLLLTHLPLALGSPMYSIITPNILRLESEETMVLEAHDAQGDVPVTVTVHDFPGKKLVLSSEKTV
LTPATNHMGNVFTTIPANREFKSEKGRNKFVTVQATFGTQVVEKVVLVSLQSGYLFIQTDKTIYTPGSTVLYRIF
TVNHKLLPVGRTVMVNENPEGIPVKQDSLSSQNQLGVLPLSWDIPELVNMGQWKIRAYYENSPPQVFSTEFEVK
EYVLPSEFVIVEPTEKFYIYNEKGLEVTITARFLYGKKVEGTAFVIFGIQDGEQRISLPESLKRIP IEDGSGEV
VLSRKVLLDGVQNLRAEDLVGKSLYVSATVILHSGSDMVQAERSGIPVTSFYQIHFTKTPKYFKPGMPFDLMVF
VTNPDGSPAYRVPVAVQGEDTVQSLTQGDGVAKLSINTHPSQKPLSITVRTKKQELSEAEQATRMTQALPYSTVG
NSNNYLHLSVLRTELRPGETLVNFNFLRMDRAHEAKIRYYTYLIMNKGRLKAGRQVREPGQDLVVLPLSITTFD
IPSFRLVAYYTLIGASGQREVADSVWVDVKDSCVGSLLVKSQSEDQPVPGQMTLKIEGDHGARVVLVAVDK
GVFVLNKKNKLTQSKIWDVVEKADIGCTPGSGKDYAGVFS DAGLTFTSSSGQTAQRAELQCPQPAARRRRSVQL
TEKRMDKVGKYPKELRKCCEDGMRENPMRFSCQRRTRFISLGEACKKVFLDCCNYITELRRQHARASHLGLARSN
LDEDIIAEENIVSRSEFPESWLWNVEDLKEPPKNGISTKLMNIFLKDSITTWEILAVSMSDKKGICVADPFVTV
MQDFFIDRLRPYSVVRNEQVEIRAVLYNYRQNOELKVRVELLHNPAFCSLATTKRRHQQTVTIPPKSSLSVPYVI
VPLKTGLQEVEVKAAYVHHFISDGVKSLKVVEGIRMNKTAVRTLDPERLGREGVQKEDIPPADLSDQVPDTE
SETRILLQGTPVAQMTEDAVDAERLKHLLIVTPSGCGEQNMIGMTPTVIAVHYLDETEQWEKFGLEKRGGALELIK
KGYTQQLAFRQPSSAFAAFVKRAPSTWLTAYVVKVFLAVNLIAIDSQVLCGAVKWLILEKQKPDGVFQEDAPVI
HQEMIGGLRNNNEKDMALTAFLISLQEKDICEEQVNSLPGSITKAGDFLEANYMNLQRSYTVAIAGYALAQM
RLKGPLLNKFLTTAKDKNRWEDPGKQLYNVEATSYALLALLQLKDFDFVPPVVRWLNEQRYGGGYGSTQATFMV
FQALAQYQKDAPDHQELNLDVSLQLPSRSSKITHRIHWESASLLRSEETKENEGFTVTAEGKGQGTLSVVTMYHA
KAKDQLTCNKFDLKVTIKPAPETEKRPQDAKNTMILEICTRYRGDQDATMSILDISMMTGAFPD TDDLKQLANGV
DRYISKYELDKAFSDRNTLIIYLDKVSHSEDDCLAFKVHQYFNVELIQPGAVKVYAYYNLEESCTRFYHPEKEDG
KLNKLCRDELRCRAEENCFIQKSDDKVTLEERLDKACEPGVDYVYKTRLVKVQLSNDFDEYIMAEQTIKSGSDE
VQVGQQRTFISPIKCREALKLEEKHYLMWGLSSDFWGEKPNLSYIIGKDTWVEHWPEEDECQDEENQKQCQDLG
AFTESMVVFGCPN

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FIGURE 1175

GGCGGCGGTCCCGAGGGGCGGCGGCCGCGCTGCTCCCTGAGAACGGGTCCCGCAGCTGGGCAGGCGGGCGGCCCTG
AGGGCGCGGAGCCATGAAGCTGTACAGCCTCAGCGTCTCTACAAAGGCGAGGCCAAGGTGGTGCTGCTCAAAGC
CGCATACGATGTGTCTTCCCTCAGCTTTTTCCAGAGATCCAGCGTTCAGGAATTCATGACCTTCACGAGTCAACT
GATTGTGGAGCGCTCATCGAAAGGCACTAGAGCTTCTGTCAAAGAACAAGACTATCTGTGCCACGTCTACGTCCG
GAATGATAGTCTTGAGGTGTGGTCATTGCTGACAATGAATACCCATCCCGGGTGGCCTTTACCTTGCTGGAGAA
GGTACTAGATGAATTCTCCAAGCAAGTCGACAGGATAGACTGGCCAGTAGGATCCCCTGCTACAATCCATTACCC
AGCCCTGGATGGTCACCTCAGTAGATACCAGAACCCACGAGAAGCTGATCCCATGACTAAAGTGCAGGCCGAAGT
AGATGAGACCAAATCATTCTGCACAACACCATGGAGTCTCTGTTAGAGCGAGGTGAGAAGCTAGATGACTTGGT
GTCCAAATCCGAGGTGCTGGGAACACAGTCTAAAGCCTTCTATAAACTGCCCGGAAACAAAACCTCATGCTGTGC
CATCATGTGATGCAGCCTGCCAGAGGCCCAATGCTGGAATGGCACCATCATTACATCAGAACTGCAGCCCCCTGG
AAAAGAAGAGACAGCCATAGACGAGGAGCCAGAGTGGGGGCAGACTGGCCATTTTTATTTTGAAGTTCTTGGCAG
AAATGGATGGTGGAAAGGTGGCGAATGTTCAAATTCATATGTGTGGTAGTGATTCTTGGAAGAATTTGAGGTCC
CCAAAGGTGTATTTTTGGGCAAATGAAACCATAACTCCGACTGGCTTCTGTAGATGCCAAAGGGCTCTTTTTCA
GCTAACCTGGGAAGGCTCTGTGGGAGGGAGGTGCGAGCCAGCTGTTTCTCGATCTTTGGTATATCTTTGGATCT
TATTTGTACATTAATGATATTAACACTCCAGTGGGGGGTGGGGAGTCCCTGATGCTAGGGCTGGGGTGGGTGGAG
TTTGAAGACTCTTGGGAAAGCCTCTCCTGGGGCCACTGTTGGGGGTGGGAGTGAGCCACCACAGAGGCCACAGG
CAGGCCCCCACTTCAGGCCCAAGGCCTGGGGCGGGGGGAACAGTCACTGGGTCTCAGATTCTGAGACTGTTGTTT
AGCTTACCTTTCTGCTAGGATTGGCTTCCCGCAGAGGGCAGGGCCCATCCTAAGCAGCTTCCAAGTCCCACAAAG
GTGGCTTGTGGGAGGATTTGGAAGGAGCTGCATTGTGGGCGGGGAGTGTGTGGGTGGGTTCGTACCAGCAAGTA
GACTAGGAAGTGAAGCCAGGAAAGGGGGATGTTTTCTGGTGTGTTGGATGGTCAGCTGGGAGTGTCCATCATCAG
GGGAAGATCAAACACAGGTGCACTCAGCTGCCAGGGCCTCTGGGACACTTGCCTTGACTTGCAACTTGCCTTGA
ACATCAGATCAAAGCAGCAGGTGCTGTGGTCTCTCAAATTTGATTTTTATTTGACTCTGTGGCTCTAAGACTGC
CTTGAACCGCCTGAGGCCTATGCATCTGAACAAGTGGGTCTCTCCCTTGAGCACCAGGAGTGGGTGCCAGCCGGC
CCCGAGGATTCCAGCACCCACCTATGGTCTTGCCAGCATAGGCTTGCTAGTTCCTTCTTGGTCAGAGGTAGCT
GCAGAGGGGGGAGGCCAAGGGTTTGGTCTAAGCTGTGCCCTGCCACCTGGCAGGAGGCCCACTCACTGCCCCAAGT
CATGGCAACAGGCTGGAGCAGCCCAGGAGATGGGCCTAAATGTTCTGGATCCCTTGGGTCTTAGTGTTATGTTT
CAGTCTGCCCACCTGTGCTCAGGATGCAGCCCTGGGATCCAGCACCCATGGAAGCTTCTGCTGGGATGGTGTAC
CTATGGGTTTTGAACCAGTGTGGTATGGTCCTTGGGAGCTCTGCTCTGAGCTTGCCACACTGCTGAGAGCACCCA
CTGTCTTGACCAGAGTCTCAGTGGTCTGACCCCAATGTGGGCAGGGGCTGGGCAGGAGGGTGGGGTCTGCTGT
GGGTTTCAAGGACTCCACCTCTGGCTGGTTTACCTGCTGCTGCCCATTTTCTCTGGGTACTGCTGGCCAGAGGA
CTTTAGCCTACCCCTGAAGAGCTGTCCATGTCAATTTTCTACTGCCATAGATACCTAAGCCCAGGGCCCCCTTG
AGGCCCAGACTCAGCCTGCCACTGGTGCCGGAGACGGAGTGGAGTGGGCCTGGATCCGAGGGATGCTACCTCTC
CCTTTCCCACTTGAGGACCCTGGGGAGAGATGGGGCGGGGAAAATGGAGGTATGAATTTGGGGTAAGAGGAAGT
GAGATCTCCGCTTGCAAGTCAGCCCTGCCTTGAGGGCGGGCTGGCTTGACTCAGGCCCTGTGAGATAGAGGGC
CCAGCCCAGCCCCACCCACAGATCCCCTGCTCCTGTTGTGTTCTGTTGTAAATCATTGGCGAGACTGTATTTTA
GTAAGTGTGCCTAAGTTCCTGTGTTCTATTTGAGAGGCGCCTGTCTGGATAAAGTTGTCTTGAAATTTCAAAA
AAAAAAAAAAAAAA

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FIGURE 1176

MKLYSLSVLYKGEAKVLLKAAYDVSSF SFFQRSSVQEFMTFTSQLIVERSSSKGTRASVKEQDYLCHVYVRNDSL
AGVVIADNEYPSRVAFTLLEKVLDEF SKQVDRIDWPVGSPATIHYPALDGHL SRYQNPREADPMTKVQAELDETK
IILHNTMESLLERGEKLDDL VSKSEVLGTQSKAFYKTARKQNSCCAIM

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FIGURE 1177

CCCTAATCAAGTACCCCCCTCCTCCTCCACCACCTCCTGCCCCACCCCTCCCTGCATCTGGATTCTTTTTGGCATC
CATGTCAGAAGACAATCGCCCTTTAACTGGACTTGAGCTGCAATTGCCGGAGCAAACTTAGGAAAGTGTCAGG
GATGGAGGATACCTCTTTCCCAAGTGGAGGGAATGCTATTGGTGTGAAGTCCGCCCTCATCTAAAACAGATACAGG
CCGTGGAAATGGACCCCTTCCTTTAGGGGGTAGTGGTTTAAATGGAAGAAATGAGTGCCCTGCTGGCCAGGAGGAG
AAGAATTGCTGAAAAGGGATCAACAATAGAAACAGAACAAAAAGAGGACAAAGGTGAAGATTCAGAGCCTGTAAC
TTCTAAGGCCTCTTCAACAAGTACACCTGAACCAACAAGAAAACCTTGGGAAAGAACAATACAATGAATGGCAG
CAAGTCACCTGTTATCTCCAGACCAAAATCCACACCCTTATCACAGCCCAGTGCCAATGGAGTCCAGACGGAAGG
ACTTGACTATGACAGGCTGAAGCAGGACATTTTAGATGAAATGAGAAAAGAATTAACAAAGCTAAAAGAAGAGCT
CATTGATGCAATCAGGCAGGAAGTGAAGTCAAACTACTGCATTAGAAGGAACAGACTAAGGAGAGATAGGACTTT
AATCTGGAGGAAAAATATCCTACAAACAACAAGTTCACAACAGCAAAACCCCTACATTTATGAGCTGTAAGAAG
AAAAATGGAGACAAAACAGAAGGAGGGAACCAACCTACTCTGAAAGCCTTCAGACATTATGACTCTGGTGATAA
GCTCTTTCCCTCTCCGTTTGCTGCTTTTTTCTGGCCTTTACAACAGAATGGAAGAGAATCATTAAAGAGTTCTCTG
TAACAGTTATGCAGAAAATACTAAAACCCATCAGGCAAGATCACCACGCATTGAAATATTTTCATATCAAGATAA
AGTCGCACATTTTCCACAATACATTGCTAAAATAAAGAGGAGAAAGGCTTAGGAAGTTTTTCTGCAGAGAGTGCT
GGTAAAGAATTGAGCAAGTTTGCTATTGTATTGTAATGTTTCTCTCAGGTTTGTTCTTCCTATCATGTTTGATAT
TCCATGAATAATTGAGATCAGCCCTATGTAAGTTAAGATCATAATATGTGGAACAAATGGAATTGTAAGTGCTTT
CAAAAGGTAATATTTATAAGAAAGTGTCGAAAAATGTTTCTTCAGCTTGAGAAATTTTAGAATGATAGGAAGTT
TCTCGAGTTAGCCTTCATGCAATTTTGATGATTAATAACATAAAATTTGTCCAGAACTTAAAGATTTAGATGCCTT
CCTAAATTTGTTACAATGCTTTACCAAATCTATGACTTCTACATAACACAAACCAGTGGTCAAATGTAAACACTAT
ATTGTAGATTTACTGTAGGTTTTCAACCTTTTTTAGATTTATGCATGTGGACATTTTTATAATGTAATTACAATC
ACCACAAGGTTAGCTTTTTTAATTGCAGACAGTAATGCATGTACACTAATATGTAGTGGCCTTTTTCAAGGCCTA
GTCCCAGGAAAAACATTTTGTAGAGTATAGGGGAGTGGGAGGAAGGGGAGGAATAATTTTTTATTTAAAGTTGAT
TTCTGCACTATCTTTTTCTCAGTTACCTGCATGAATAAATAATGAGAAATATTTGTGACTTTAATTGGTAAATA
TGTTACAAAACCAAGTACTTAATCTTTTACATCATGTCTTCAGCTATTTGTATTTTAACCAGTAATTTCAATGGT
CTGAAACATGATTCTGAGCTTCACATAATATCTTAAGTGTGGAAGTCAAAAGTTTGATCACTGAATTTGGCAGTT
ATTATTACCTAGGTACCCCGCTGTTACACAGGTGTTTAGATACGTGTTCTGAATGAAGCTGCTTTTGAATTTT
GTTATGTTGAAATGCAAGAAATAACAATGATGGCAGCAATTAAGGTCACAGAAATCATTAGGTAAAGGAAAACCA
ATGAGGAGTTCTGCAGTTTTCTTTTAATAAGTAAAGTGAGACTTGGGTGGTGGGAAGAAGGAAGGTGGGAAGAAG
GAATTAGACACTCTGCCTGCCACTCTGCGTGTGTGCTCTCGCGCACGTGCTGTCTATATGGAAGCCACTCCCT
TTCTTTTCTTTGAAACTGGTAAGGTTAAAATAGGGGAGAAATCCTACATGTTGGAATGATAGCTTTTTGGAAAA
TTAAGAACTCTCCAGGCTCTCCATCTTGATTTATGCTTGAGTTGTTATGTGCCATATTTGCTTTGAACTCTGA
TTATCAGAAGTTTTACTAAAACCTTTGAAATAATTCATTTTCTGCTTTCTAGATTTTGTACATCTCAGTCCAT
AAAGCAAAGCTTGTTGATAGTGTAGTTTTCTAAACGCTGCAAAATTTGCAGCCTTTACCACTACAAAGAAGTTTG
ATGAGGGATTTTTTTTTTCTTTGTCAAAATAGTTCTGTTTCTGTAGAAATTTCAATTTTAGATTAAACTGTGAT
GGATGGGCTATCATAATTCAAGTATACATTTCTTTTTCTATCAGATATTCATTGTCATGCAGTAGTAGTAAAAA
CATCAAAGATGCAGCAAGCTTATTAAGTATTATTTCTAAAAGAAATAGGAGGCATTTTCATCTTTATTATTGTA
CTTTTGGTTATGCAAAACCTTTGATAATATAAACAGTTATGTCCCTATAAATCTGGTCAGCAACCTCTTTTGAT
TTTGTGGGTAAAGTTAAATAGTCTGTAGTAGGTAGAGTACTGGGTACAAGTGGTCCAACTAAGATAAGAGACTA
AAATAAAATGCTAAATCTTAAAGAACTGGGTTTATGCACTAAACGTTTTGTGCCTTGGTCTAATATTAACATG
ATGTATGTGTAAACTGAC

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FIGURE 1178

MSEDNRPLTGLAAAIAGAKLRKVSRMEDTSFPSGGNAIGVNSASSKTDITGRGNGPLPLGGSGLMEEMSALLARRR
RIAEGSTIETEQKEDKGEDSEPVTSKASSTSTPEPTRKPWERTINTMNGSKSPVISRPKSTPLSQPSANGVQTEG
LDYDRLKQDILDEMRELTKLKEELIDAIRQELSKSNTA

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FIGURE 1179

GTGGGGCTGGGCCCAGCCGGACGCGACCTCAGCCTGCGGGCGGCTAACTGCCGGTAGGCGTCTGTGTGCGCCGCCA
AGTCGGTGGGGCGGGGACGCGAGGTGTGGATGGGGGGTGCCTTGACCTCTGCCTCAGCCAGTAGCGCAGTCTCG
GCCTCGCCGTTACGGAGATGGTGCCCTGGGTGCGGACGATGGGGCAGAAGCTGAAGCAGCGGCTGCGACTGGACG
TGGGACGCGAGATCTGCCGCCAGTACCCGCTGTTCTGCTTCCTGCTGCTCTGTCTCAGCGCCGCTCCCTGCTTC
TTAACAGGTATATTTCATATTTTAAATGATCTTCTGGTCATTTGTTGCTGGAGTTGTCACATTCTACTGCTCACTAG
GACCTGATTCTCTCTTACCAAATATATTCTTCACAATAAAATACAAACCCAAGCAGTTAGGACTTCAGGAATTAT
TTCCTCAAGGTCATAGCTGTGCTGTTTGTGGTAAAGTGAAATGTAAACGACATAGGCCTTCTTTGCTACTTGAAA
ACTACCAGCCATGGCTAGACCTGAAAATTTCTTCCAAGGTTGATGCATCTCTCTCAGAGGTGGATATTCCATCTA
TTATAACCAAGAACTATTAAAAGCAGCAATGAAGCATATAGAAGTGATAGTTAAAGCCAGACAGAAAGTAAAAA
ATACAGAGTTTTTACAGCAAGCTGCTTTAGAAGAATATGGTCCAGAGCTTCATGTTGCTTTGAGAAGTCGAAGAG
ATGAATTGCACTATTTAAGGAACTTACTGAAGTCTTTTTCTTATATTTTGCCTCCTAAAGCAACAGACTGCA
GATCTCTGACCTTACTTATAAGAGAGATTCTGTCTGGCTCTGTGTTCTTCTTCTTTGGATTTCTTAGCTGATC
CAGATACTGTGAATCATTGCTTATCATCTTCATAGATGACAGTCCACCTGAAAAAGCAACTGAACCGGCTTCTC
CTTTGGTTCCATTCTTGCGAGAAATTTGCAGAACCTAGAAATAAAAAAGCCATCTGTGCTGAAGTTAGAATTGAAGC
AAATCAGAGAGCAACAAGATCTTTTATTTTCTGTTTATGAAGTCTTCTGAAACAAGAAGGCGCAGTGCACGTGTTGC
AGTTTTGTTTACTGTGGAGGAATTTAATGATAGAATTTTACGACCAGAATTATCAAATGATGAAATGCTGTCTC
TTCATGAAGAATTGCAGAAGATTTATAAAACATACTGTTTGGATGAAAGTATTGACAAAATTAGATTTGATCCCT
TCATTGTAGAAGAGATTCAAAGAATTGCTGAAGGCCCATACATAGATGTTGTGAAACTTCAAACATGAGATGTC
TTTTTGAAGCATATGAACATGTTCTTTCCCTTTTGGAGAATGTATTTACTCCTATGTTCTGCCATAGTGATGAGT
ATTTTCAGACAACTTTTAAGAGGTGCAGAATCACCAACACGCAATTCAAATTTGAACAGGAACACACAGAAAAGGG
GAGAATCATTGGAATCAGCAGAATAGGTAGCAAAATTAAGGAGTATTCAAAGTACCACAATGGAGGGAGCTA
TGTTGCCTAATTATGGTGTAGCTGAAGGTGAAGATGATTTTATTGAAGAAGGTATTGTTGTAATGGAAGATGATT
CTCCAGTGGAGGCTGTGAGCACACCTAATACTCCCCGAAACCTTGCTGCATGGAAAATTAGCATTCCATATGTAG
ACTTTTTTGGAGATCCCTCCTCTGAAAGGAAGGAGAAAAAAGAAAGAATTCCTGTGTTTTGTATTGATGTTGAAA
GAAATGATAGAAGAGCAGTTGGACACGAGCCTGAACATTGGTCTGTCTATAGAAGATATCTTGAATTCTATGTAC
TTGAATCAAACTAACAGAATTTTCATGGTGCATTTCTGTATGCCAGCTTCTTCTAAGAGGATCATTGGCCCCA
AAAATTATGAATTTCTTAAAGTCAAAGAGGGAAGAGTTCCAAGAATATCTACAGAACTTCTGCAGCATCCAGAAC
TGAGTAATAGTCAACTTCTGGCAGACTTTCTTTCCCTAATGGTGGGGAAACACAATTTCTTGATAAGATACTAC
CAGATGTAAATCTTGGGAAAATTATAAAATCTGTTCTGGAATAATGAAAGAGAAAGGTGAGCATTGGAAC
CTTTTATCATGAATTTTCAATTAATTTCTGTGAGTCTCCAAAGCCTAAACCAAGTAGACCAGAACTGACCATTCTCA
GCCCTACTTCAGAAAACAACAAGAAGCTTTTCAATGATCTGTTTAAAAATAATGCAAACCGTGCTGAAAATACAG
AGAGAAAAGCAAAATCAGAATTATTTTATGGAGGTGATGACTGTAGAAGGAGTCTATGATTACCTGATGTATGTAG
GACGGGTAGTTTTCCAGGTTCTGACTGGCTTCATCATCTCTTAATGGGAACCTCGAATCCTCTTTAAAAACACCC
TGGAATGTATACTGATTACTATCTTCAGTGTAACCTAGAACAGCTATTTTCAGGAGCACCGTTTGGTCTCACTCA
TAACACTTCTCAGAGATGCTATATTCTGTGAAAACCTGAACCTCGCTCTCTCCAAGATAAGCAAAAAGGAGCAA
AACAGACTTTTGAAGAAATGATGAATTACATTCCAGATCTGTTAGTCAAGTGTATTGGTGAAGAAACCAAGTATG
AAAGCATCAGACTTCTGTTTGTATGGCTTACAGCAACCAGTACTCAACAAGCAGCTGACTTATGTTTTATTGGACA
TTGTGATACAGGAAGTGTTCAGAGCTCAATAAGGTACAAAAGGAAGTTACCTCTGTGACATCTTGGATGTAAA
CACTTGGATTTGGTATAGAATAACCCATTGAAATTTCTGCTGTGCGAGGGTGGTAGAAATTTACTTTTTTGGGTA
TATCTTATATATATTATGTACATCGCTGTCTGAAATTTTAGTTATTTTTTGTTTTTAATAAAGACTAACACAAA
CTTAATGATTAAAGTGAAAAA

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FIGURE 1180

MGQKLKQRLRLDVGREICQYPLFCFLLCLSAASLLLNRYIHILMIFWSFVAGVVTIFYCSLGPDSLLPNIFFTI
KYKPKQLGLQELFPQGHSCAVCGKVKCKRHRPSLLENYQPWLDLKISSKVDASLSEVDIPSIIITKLLKAAMKH
IEVIVKARQKVKNTEFLQQAAL EYGP ELHVALRSRRDELHYLRKLT ELLFPYILPPKATDCRS LTLIREILSG
SVFLPSLDFLADPDTVNHLLIIFIDDSPPEKATEPASPLVPFLQKFAEPRNKKPSVLKLELKQIREQQDLLFRFM
NFLKQEGAVHVLQFCLTVEEFNDRILRPELSNDEM LSLHEELQKIYKTYCLDESIDKIRFDPFIVEEIQRIAEGP
YIDVVKLQTMRCLEAYEHVLSLLENVFTPMFCHSDEYFRQLLRGAESPTRNSKLN RNTQKRGESFGISRIGSKI
KGVFKSTTMEGAMLPNYGVAEGEDDFIEEGIVMEDDSPVEAVSTPNTPRNLA AWKISIPYVDF FEDPSSERKEK
KERIPVFCIDVERNDRRAVGHEPEHWSVYRRYLEFYVLESKLTEFHGAFPDAQLPSKRIIGPKNYEFLKSKREEF
QEYLQKLLQHPELSNSQLLADFLSPNGGETQFLDKILPDVNLGKIIKSVP GKLMKEKGQHLEFFIMNFINSCEP
KPKPSRPELTILSPTSENK KLFNDLFKNNANRAENTERKQNQNYFMEVMTVEGVYDYL MYVGRVVFQVPDWLHH
LLMGTRILFKNTLEMYTDYYLQCKLEQLFQEHRLVSLITLLRDAIFCENTEPRSLQDKQKGAKQTFEEMMNYIPD
LLVKCIGEETKYESIRLLFDGLQQPVLNKQLTYVLLDIVIQELFPELNKVQKEVTSVTSWM

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FIGURE 1181

CCTGCTCTGTAGAGCCGGCGGCAACCGGGTAGCTTGGCCAGGTTGTGAGGAACCGCAGCGCCCGCAGGACCGGGC
CGCTGAGCCTGCAGCCGCCCCGCGCCGTGACCTGCGACCCTAGACCCCGACTACCCTTTGGCTCAGCCCGCGCGC
CCCAGGCCCCGGCCCCGGGCGGCGGACGGGAGGATGAGCGGCGGGCGGCGGAAGGAGGAGCCGCCTCAGCCGCAGC
TGGCCAACGGGGCCCTCAAAGTCTCCGTCTGGAGTAAGGTGCTGCGGAGCGACGCGGCCTGGGAGGATAAGGATG
AATTTTGTAGATGTGATCTACTGGTTCGACAGATCATTGCTGTGGTCCTGGGTGTCATTTGGGGAGTTTGGCCAT
TACGAGGGTTCTTGGGAATAGCAGGATTCTGCCTGATCAATGCAGGAGTCCTGTACCTCTACTTCAGCAATTACC
TACAGATTGATGAGGAAGAATATGGTGGCACGTGGGAGCTCACGAAGGAAGGGTTTATGACCTCTTTTGCCTTGT
TCATGGTCATTTGGATCATCTTTTACACTGCCATCCATTATGACTGATGGTGTACAGCTCCCAAGTGCTCCCTAT
CCAGTCCAAAGGACCCCTCTTGATTACAGCACAGGAACCTTGATCGTTGGGGAACCCAGCCCTTGGAACCTGGAA
GACCCGTGTTTCTTGGACCGCGAATCAGTGTGTTGGGCATCAGTGTCTTCTGCAAGGGTTGTGACCTGAAACTTT
TTAAAAACCAACCCACCTTTGGGGAAGCATTCTGAATTTATCCATCACCAACCATTCTTCTTGGATACCATCAA
GTAACAGCTATTATTTGCCAAGTGGAGCTGTCATTTAATTTGATGCACCTCTGGATTGAGATGAAACATTAAATT
GTCTTCCTCGATTCTCCATCGGGTGTAGAGTTTTTAACTATCAATGGCATTTCAGTCTTCTGAAACAGCATGG
CTGTATGTGCGTGGTCCATAGCACAGTACATGCAGCATCTAATAAGAGTTTCCATTGTAGAATGTTTTCACATAC
TTGAATAAATCAAATCTTTAATTGAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1182

MSGGRRKEEPPQPQLANGALKVSVWSKVLRSDAAWEDKDEFDVIYWFRQIIAVVLGVIWGVLP LRGFLGIAGFC
LINAGVLYLYFSNYLQIDEEYGGTWELTKEGFMTSFALFMVIWIIFYTAIHYD

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FIGURE 1183

GGGGGGGAGGACTGGGTGCGCCTGCAGGGATCGGAAGCCGGTTGGGGTGTGAGAGGTTTTCTCGCTCTAGGGAGA
TTCTTCAAGCAATCACT**ATGT**CAACAGACACAGGTGTTTCCCTTCCTTCATATGAGGAAGATCAGGGATCAAAAC
TCATTGAAAAGCTAAAGAGGCACCATTCGTACCCGTTGGAATAGCGGGTTTTGCAGCAATTGTTGCATATGGAT
TATATAAACTGAAGAGCAGGGGAAATACTAAAATGTCCATTTCATCTGATCCACATGCGTGTGGCAGCCCAAGGCT
TTGTTGTAGGAGCAATGACTGTTGGTATGGGCTATTCCATGTATCGGGAATTCTGGGCAAACCTGAGCCT**TAGA**
AGAAGAGATGCTGTCTTGGTCTTGTGGAGGAGCTTGCTTTAGTTAGATGTCTTATTATTAAAGTTACCTATTAT
TGTTGGAAATAAACTAATTTGTATGGGTTTAGATGGTAACATGGCATTTTGAATATTGGCTTCCTTTCTTGCAGG
CTTGATTTGCTTGGTGACCGAATTACTAGTGACTAGTTTACTAACTAGGTCATTCAAGGAAGTCAAGTTAACTTA
AACATGTCACCTAAATGCACTTGATGGTGTGAAATGTCCACCTTCTTAAATTTTTAAGATGAACTTAGTTCTAA
AGAAGATAACAGGCCAATCCTGAAGGTACTCCCTGTTTGCTGCAGAATGTCAGATATTTTGGATGTTGCATAAGA
GTCCTATTTGCCCCAGTTAATTCAACTTTCGTCTGCCTGTTTTGTGGACTGGCTGGCTCTGTTAGAACTCTGTCC
AAAAAGTGCATGGAATATAACTTGTAAAGCTTCCCACAATTGACAATATATATGCATGTGTTTAAACCAATCCA
GAAAGCTTAAACAATAGAGCTGCATAATAGTATTTATTAAAGAATCACCAACTGTAAACATGAGAATAACTTAAG
GTTCTAGTTTAGTTTTTTTGTAAATTGCAAATTATTTTTTGCTGCTGATATATTAGAATAATTTTAAATGTCATC
TTGAAATAGAAATATGTATTTTAAGCACTCACGCAAAGGTAAATGAACACGTTTTAAATGTGTGTGTTGCTAATT
TTTTCCATAAGAATTGTAAACATTGAACTGAACAAATTACCTATAATGGATTTGGTTAATGACTTATGAGCAAGC
TGGTTTGGCCAGACAGTATACCCAACTTTTATATAATATACAGAAGGCTATCACACTTGTGAAATTCTCTTGTC
TAATCTGAATTTGCATTCATGGTGTAAACATGGTATATGTATTGTTATTAAAGTAAAGTGACCCATGAAAAAAA
AAAAAAAAAAAA

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FIGURE 1184

MSTDIGVSLPSYEEDQGSKLIRKAKEAPFVPVGIAGFAAIVAYGLYKLKSRGNTKMSIHLIHMRVAAQGFVVGAM
TVGMGYSMYREFWAKPEP

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FIGURE 1185A

CCCCGACTAGCCCGACAGTCCCCGACTAGCCCGACAGCCCCAGCAGGATCTGCATCGTCATCGAGCCGGCCCCAGC
TTCTGAAGGGAGATGTCATGGTGAAATGCTACCACAAGAAATACCGCTCGGCCACCCGTGACGTCATTTTCCGCC
TGCAGTTTACACTGGGGCTGTGCAGGGCTACGGGCTGGTGTGTTGGGAAGGAGGATCTGGACAATGCCAGCAAAG
ATGACCGTTTTCTGACTATGGGAAGGTTGAATTAGTCTTCTCTGCCACGCCTGAGAAGATTCAAGGGTCCGAAC
ACTTGTACAACGACCACGGTGTGATTGTGGACTACAACACAACAGACCCACTGATACGCTGGGACTCGTACGAGA
ACCTCAGTGCAGATGGAGAAGTGCTACACACGCAGGGCCCTGTCGATGGCAGCCTTTACGCGAAGGTGAGGAAGA
AAAGCTCCTCGGATCCTGGCATCCAGGTGGCCCCCAGGCAATCCCGGCCACCAACAGCCCAGACCACAGTGACC
ACACCTTGTCTGTGACGAGTACTCCGGCCACTCTACAGCCTCTGCCAGGACGGATAAGACGGAAGAGCGCCTGG
CCCCAGGAACCAGGAGGGGCTGAGTGCCAGGAGAAGGCAGAGTTGGACCAGCTGCTCAGTGGCTTTGGCCTGG
AAGATCCTGGAAGCTCCCTCAAGGAAATGACTGATGCTCGAAGCAAGTACAGTGGGACCCGCCACGTGGTGCCAG
CCCAGGTTTACGTGAATGGAGACGCTGCTCTGAAGGATCGGGAGACAGACATTCTGGATGACGAGATGCCCCACC
ACGACCTGCACAGTGTGGACAGCCTTGGGACCCTGTCTCTCGGAAGGGCCTCAGTCGGCCCACCTGGGTCCCT
TCACCTGCCACAAGAGCAGCCAGAATCACTCCTATCTGACGGTTTTGGCAGCAACGTTGGTGAAGATCCGCAGG
GCACCTCGTTCCGGACCTGGGCCTTGGCATGACGGCCCTATGAGCGGGAGCGGACTTTTGGGAGTCGAGAGC
CCAAGCAGCCCCAGCCCCCTGCTGAGAAAGCCCTCAGTGTCCGCCCAGATGCAGGCCTATGGGCAGAGCAGCTACT
CCACACAGACCTGGGTGCGCCAGCAGCAGATGGTTGTAGCTCACCAGTATAGCTTCGCCCCAGATGGGGAGGCCC
GGCTGGTGAGCCGCTGCCCTGCAGACAATCCTGGCCTCGTCCAGGCCCAGCCCAGAGTGCCACTCACCCCCACCC
GAGGGACCAGCAGTAGGGTGGCTGTCCAGAGGGGTGTAGGCAGTGGGCCACATCCCCCTGACACACAGCAGCCCT
CTCCCAGCAAAGCGTTCAAACCCAGGTTCCAGGAGACCAGGTTGTGAATGGAGCCGGGCCAGAGCTGAGCACAG
GCCCCCTCCCCAGGCTCGCCCCACCTTGACATCGACCAGTCCATCGAGCAGCTCAACAGGCTGATCCTGGAGCTGG
ATCCACCTTCGAGCCCATCCCTACCCACATGAACGCCCTCGGTAGCCAGGCCAATGGCTCTGTGTCTCCAGACA
GCGTGGGAGGTGGGCTCCGGGCAAGCAGCAGGCTGCCTGACACAGGAGAGGGCCCCAGCAGGGCCACCGGGCGGC
AAGGCTCCTCTGCTGAACAGCCCCCTGGGCGGGAGACTCAGGAAGCTGAGCCTGGGGCAGTACGACAACGATGCTG
GGGGGCAGCTGCCCTTCTCCAAATGTGCATGGGGAAAGGCTGGTGTGGACTATGCCCCAAACCTGCCGCCATTCC
CCTCACCAGCGGACGTCAAAGAGACGATGACCCCTGGCTATCCCCAGGACCTCGATATTATCGATGGCAGAAATTT
TAAGTAGCAAGGAGTCCATGTGTTCAACTCCAGCATTTCTGTGTCTCCAGAGACACCGTATGTGAAAACAGCGC
TGCGCCATCCTCCGTTAGCCCCACCTGAGCCCCCGCTGAGCAGCCCAGCCAGTCAGCACAAAGGAGGACGTGAAC
CACGAAGCTGCCCTGAGACGCTCACTCACGCTGTGGGGATGTCAGAGAGCCCCATCGGACCCAAATCCACGATGC
TCCGGGCTGATGCGTCTCGACGCCCTCCTTTACAGCAGGCTTTTGCTTCTTCTGCAACATTTCCAGCAACGGCC
CTGGGCAGAGGAGAGAGAGCTCCTCTTCTGCAGAACGCCAGTGGGTGGAGAGCAGCCCCAAGCCCCATGGTTTCCC
TGCTGGGGAGCGGCCGGCCCCACCGGAAGTCCCCTCAGCGCTGAGTTCTCCGGTACCAGGAAGGACTCCCCAGTGC
TGTCTGCTTCCCGCCGTGACAGCTCCAGGCTCCTTTCCACAGCCATGAGCTGTCCCTAGCAGAGCCACCGGACT
CCCTGGCGCCTCCCAGCAGCCAGGCCTTCTGGGCTTCGGCACCGCCCCAGTGGGAAGTGGCCTTCCGCCCCAGG
AGGACCTGGGGGCTTGTGGCCAATTTCTCATGGAGCGTCACCGACCCCCAGCATCCCGCTGACAGCGACAGGGG
CTGCCGACAATGGCTTCTGTCCCACTTTCTCACGGTGGCGCCTGGACACAGCAGCCACCACAGTCCAGGCC
TGCAGGGCCAGGGTGTGACCTGCCCGGCGAGCCACCCCTCCCTGAGAAGAAGCGGGCCTCGGAGGGGGATCGTT
CTTTGGGCTCAGTCTCTCCCTCCTCCAGTGGCTTCTCCAGCCCGCACAGCGGGAGCACCATCAGTATCCCTTCC
CAAATGTCTTCCCGACTTTTCCAAGGCTTCAGAAGCGGCCTCACCTCTGCCAGATAGTCCAGGTGATAAACTTG
TGATCGTGAAATTTGTTCAAGACACTTCCAAGTTCTGGTACAAGGCGGATATTTCAAGAGAACAAGCCATCGCCA
TGTTGAAGGACAAGGAGCCGGGCTCATTATTGTTGAGACAGCCATTCTTCCGAGGGGCTATGGCCTGGCCA
TGAAGGTGGCCACGCCCCACCTTCACTCCTGCAGCTGAACAAGAAAGCTGGAGATTGGCCAATGAACCTGTC
GGCACTTTTTGATCGAGTGTACCCCGAAGGGAGTGCAGTTGAAAGGGTGCTCGAATGAACCATATTTCCGGAGCC
TGACGGCTTGGTGTGCCAGCATTCATCACGCCCTTGGCCTTGGCGTGCAAGCTGCTTATCCCAGAGAGAGATC
CATTGGAGGAAATAGCAGAAAGTTCTCCCCAGACGGCAGCCAATTCAGCAGCTGAGCTGTTGAAGCAGGGGGCAG
CCTGCAACGTGTGGTACTTGAACCTGTGTGGAGATGGAGTCCCTCACCGGCCACCAGGCGATCCAGAAGGCCCTGA
GCATCACCTTGGTCCAGGAGCCTCCACCTGTGTCCACAGTTGTGCACTTCAAGGTGTCAGCCCAGGGCATCACCC
TGACAGACAATCAGAGGAAGCTCTTCTCCGGAGGCATTACCCCGTGAACAGTGTGATTTTCTGTGCCTTGGACC
CACAAAGACAGGAAGTGGATCAAAGATGGCCCTTCTCAAAGTCTTTGGATTGTGGCCCGGAAGCAGGGCAGTG

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FIGURE 1185B

[illegible]

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FIGURE 1186

MVKCYHKKYRSATRDVIFRLQFHTGAVQGYGLVFGKEDLDNASKDDRFPDYGKVELVFSATPEKIQGSEHLYNDH
GVIVDYNTTDPLIRWDSYENLSADGEVLHTQGPVDGSLYAKVRKKSSSDPGIPGGPQAIPATNSPDHSDHTLSVS
SDSGHSTASARTDKTEERLAPGTRRGLSAQEKAELDQLLSGFGLEDPGSSLKEMTDARSKYSGTRHVVPAQVHVN
GDAALKDRETDILDDDEMPHHDLSVDSLGTLSSEGPQSAHLGPFTCHKSSQNSLLSDGFGSNVGEDPQGTLPD
LGLGMDGPYERERTFGSREPKQPQPLLRKPSVSAQMQAYQSSYSTQTWVRQQQMVAHQYSFAPDGEARLVSR
PADNPGLVQAQPRVPLTPTRGTSSRVAVQRGVGSGPHPPDTQQPSPSKAFKPRFPGDQVVNGAGPELSTGPS
PTLDDIDQSIEQLNRLILELDPTFEPITHTMNALGSQANGSVSPDSVGGGLRASSRLPDTGEGPSRATGRQGSSAE
QPLGGRLRLKLSLGQYDNDAGGQLPFSSKCAWGKAGVDYAPNLPPFPSPADVKETMTPGYPQDLDIIDGRILSSKES
MCSTPAFFVSPETPYVKTALRHPPFSPPEPPLSSPASQHKGGREPRSCPETLTHAVGMSESPIGPKSTMLRADAS
STPSFQQAFASSCTISSNGPGQRRESSSSAERQWVESSPKPMVSLLGSGRPTGSPLSAEFSGTRKDSVLS
SELQAPFHSHELSLAEPPDSLAPPSSQAFLGFGTAPVGSGLPPEEDLGALLANSHGASPTPSIPLTATGAADNGF
LSHNFLTVA PGHSSHHSPGLQGQGVTLPGQPPLPEKKRASEGDRSLGVSVPSSSGFSSPHSGSTISIPFPNVLPD
FSKASEAASPLPDSPGDKLVIVKFVQDTSKFWYKADISREQAIAMLKDKEPGSFIVRDSHSFRGAYGLAMKVATP
PPSVLQLNKKAGDLANELVRHFLIECTPKGVRLKGCSNEPYFGSLTALVCQHSITPLALPCKLLIPERDPLEEIA
ESSPQTAANSAAELLKQGAACNVWYLSVEMESLTGHQAIQKALSITLVQEPPPVSTVVHFKVSAQGITLTDNQR
KLFFRRHYPVNSVIFCALDPQDRKWIKDGPSSKVFGEFVARKQGSATDNVCHLFAEHDPEQPASAIVNFVSKVMIG
SPKKV

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FIGURE 1187

GGAAAAGGAAAAAAAAATTAGCTTTATACCTCTTCCTGGTCTCAACCGGCCAGGAAATTTCTGGAACACTCCAAAT
TCAGTGGAATTAAATCCAAAACAAAATTTTATAAGGTTTAAATACTTTTCACTTCTTATAGTAATAGTATACTT
TAAAAAGCCTCAGGGGTATATTATCTTCTAAACAGCTTACAATTCCAGTGCAGCTACATTAACCAACTATGTTCT
CTAGTTGAGAACAACCTAGGCCTATTTCACTGCTGTGTAGCCTCAGTGCCTAACATGGGTGCCAAATAAATATTCTG
TAGAATTACACTGAATTGTAAAAACCATTCGTTTTTTGTTTACAATTGCCAAAAATCTCAAAAGGCCCTGTATTTA
TGTAATTCTTTGAAATTATTATTTTATTTTAAATTTCTCAGTTATTGACTGGCTGGGTGTGACTTAGTACATAAGT
ACTCAATATTATAAAAAACCTCAAATAATTGACTTGATTTTACACAACATCCTTCCCTTTTCTACAAGTTAATTTT
TTTACAAATCATTGTTGTTATCTCCTAAATAGGTTATATTTTATTGCTTCTAGAAACAATGTTTCAAATATATG
TGCATTATCAGTAATAATTTGTATAAATATTTCCCACAACAATTTTCATAATTTTCAAAGACTAATTTCTTGACT
GAAGATATTTTGCTAGGGAAGTGAAACTTTTAAATTTTGTAGATTTTAAAAAATATTGTTGAATGGTGTGTCATGCA
AAGGATTTATATAGTGTGCTCCCACTAAGTGTGTACAGATCAGGACACATATTTTATAGACATCTAAGTCTGTAGC
TTAAATGGAGGTTACTCTTCCATCATCTAGAATTGTTTACTTAGTAATTGTTGTTTCTTTTATTATTATAGACTT
ACTATCAGTTTTATTTTGCCAAGTATGCAACAGGCATATCACTAGTATATGAAAATGTAAATATCACTTGTGTAC
TCAAACAAAAGTTGGTCTTAAGCTTCCACCTTGAGCAGCCTTGGAACCTAACCTGCCTCTTTTAGCATAATCAC
ATTTTCTAAATGATTTTCTTTGTTCTGAAAAAGTGATTGTATTAGTTTACATTTGTTTTTTGGAAGATTATA
TTTGTATATGTATCATCATAAAATATTTAAATAAAAAGTATCTTTAGAGTGAAAAAA

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FIGURE 1188

GKGKKISFIPLPGLNRPGNFWNTIPNSVELNPKQNFIRFKILFTSYSNSIL

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FIGURE 1189

AGCCGGATTGAAACAAGATGGCGGGTTTCGTGGTGAGAAGCCGTCAAGGAGTAGAAATTGGTATGCTTAGAAGCAG
ATTCTAAAAGCAGTTTCTCTTCAGAACATCTTTTTTCATACCACTTGATAAGCATCTTGAAACACCATGGCTGTA
GCTGCAGTAAATGGGTGATGTCAAAGAGAACTATCTTGAAACATTTATTTCCAGTCCAAAATGGAGCTTTATAT
TGTGTTTGTCAATAATCTACGTATTCTCCTCTACCAGATGACTATAATTGCAACGTAGAGCTTGCTCTGACTTCT
GATGGCAGGACAATAGTATGCTACCACCCTTCTGTGGACATTCCATATGAACACACAAAACCTATCCCTCGGCCA
GATCCTGTGCATAATAATGAAGAAACACATGATCAAGTGCTGAAAACCAGATTGGAAGAAAAAGTTGAACACCTT
GAGGAAGGACCTATGATAGAACAACCTTAGCAAAATGTTCTTTACTACTAAGCACCGTTGGTATCCTCATGGACGG
TATCACAGATGTCGTAAGAATCTGAATCCTCCAAAAGACAGATTGATGCGGAGGTTTCTGGGGGAATCAAAGAGAA
ATGTGCCTCATTTGCCATTTGAGAAAATGCAGTCTGGTGTATTTCAGTAATATATAGTAAAGTAATAATGATAAAA
TATCTTTTCATATATTAGAATGTGTACTTTTATATAAAGTAATTCCTGGATTTGACATTCTCATTTAGAGAAACCT
ATTTCTTTTTTCTTTTTCTATTTTAGTGTTTCATTTATGTGCGGTCTCCAATTTAGGACTTTTCCATAGTGCCA
AAGCCATACATATTCAGTAGAACATCAATAAATTCATCAGAAATTCAAACACTTTATTATAAAACGGGCTTCGTG
TTAGATAATTTTGCTAAACAGTAGGCTACTGTAAGTGTTCTGAGCATATTTAAGCAGGCTAGCATTTTCAATTTA
CAATATTTTCAACTGATAGTAGGTTTATTGGGATGTAACCTTATGATAAGTTGAGAAACATCTCTTTTTGTGTGT
CTACTGTGATTTAAGTATTTTAAATCATCAGCCAAGCATTGTTAGTAGTATAAATATGATTAATAAAATGTGCA
TGGCTTTCCTACAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1190

MAVAAVKWVMSKRTILKHLFPVQNGALYCVCHKSTYSPLPDDYNCNVELALTS DGRTIVCYHPSVDIPYEHTKPI
PRPDPVHNNEETHDQVLKTRLEEKVEHLEEGPMIEQLSKMFFTTKHRWYPHGRYHRCRKNLNPPKDR

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FIGURE 1191A

GCGGCGGCCTCGAGGTGACAACTGTCTCCGTCGCAGGCTCCGGCGGGGCGCAGGAGGTCGCCCCGGCGGTCCTACT
GTCGGGTTCGGCGAGCCACGGGGGCCGCCGAGCACCATGCGGACCACCGTCAGCACTCAGCGCGGGCCGGTGTAC
ATCGGTGAGCTCCCGCAGGACTTCCTCCGCATCACGCCCACACAGCAGCAGCGGCAGGTCCAGCTGGACGCCCAG
GCGGCCCAGCAGCTGCAGTACGGAGGCGCAGTGGGCACCGTGGGCCGACTGAACATCACGGTGGTACAGGCAAAG
TTGGCCAAGAATTACGGCATGACCCGCATGGACCCCTACTGCCGACTGCGCCTGGGCTACGCGGTGTACGAGACG
CCACGGCACACAATGGCGCCAAGAATCCCCGCTGGAATAAGGTCATCCACTGCACGGTGCCCCCAGGCGTGGAC
TCTTTCTATCTCGAGATCTTCGATGAGAGAGCCTTCTCCATGGACGACCGCATTGCCTGGACCCACATCACCATC
CCGGAGTCCCTGAGGCAGGGCAAGGTGGAGGACAAGTGGTACAGCCTGAGCGGGAGGCAGGGGGACGACAAGGAG
GGCATGATCAACCTCGTCATGTCTACGCGCTGCTTCCAGCTGCCATGGTGTATGCCACCCACAGCCCGTGGTCTCTG
ATGCCAACAGTGTACCAGCAGGGCGTTGGCTATGTGCCCATCACAGGGATGCCCGCTGTCTGTAGCCCCGGCATG
GTGCCCGTGGCCCTGCCCCCGGCCGCGTGAACGCCCAGCCCCGCTGTAGCGAGGAGGACCTGAAAGCCATCCAG
GACATGTTCCCAACATGGACCAGGAGGTGATCCGCTCCGTGCTGGAAGCCAGCGAGGGAACAAGGATGCCGCC
ATCAACTCCCTGCTGCAGATGGGGGAGGAGCCATAGAGCCTCTGCCTCGATGCCGTTTTGCCCCCGCTCTTTGGA
CACGCCGACCCGGCGCTCCCCAAGGAATGCTGTCCCAACAAGATTCCCGTGAAAGAGCACCCGTGTGCCCCCTC
CCGTGGACTTCTGTGCCGCCCCGTCCACACCTGTTCTTGGGTGCGATGTGGGTTTTCGGTTTCTGGCGGTCCAGGA
CGGGGCGGGGGCTCCCTCCCATCTCGTGCTGGGAGGTCTCAGCGCGCTCTCCTGTCCCTGGGACGTGCGTCTCT
CCTTCTCATGCCGTTCTTGAAAATGCTCTTGCTGTAGAGAGCAGCTGCTTCTGCCAGGGTGTGGAGGTGGTGGAA
GCGCCTTCCGATTCCATTTCATGGCATTCTTGTGATGTGATGTAATTGGAATAGAGCTGTTGATTTAAGGCACACAC
AATCCCTCACACTGTGGGTTTTTTTTTAGAACTTCCAGACGAAAACCTCACGCCCTTGCCCTAACCGCGCTTTGCTG
TGAGCCTGGCCCCCTGCCCAGGGCTTGGGTCTGGTGAGCTGAGCAGCTTCTGTGGATGGTGTGGGGCCGGCCTCT
GGCCTGGCTCACCTGGCCACTGTCCAGCCAGCCTTGTGACAGACTCCGGCCTGAAGGCAGAATGAACCCACACCT
GGAGTGAGGAAGGGGGCTTGGCACGGTTGGCCAGGCTCTGCCTGATTGCCAGCCAGCGGGCATCTGAAGCCGGGT
CCTTCGCCCCGCGGAGGCTGCCGTCCGTCTCTCCTGCTGCGCTCGTGCCAGCTCCGTGGGTGTCTCTCCAGGGAG
CTTCTCTTCTCAACAGGCCTTGCGAGGCTGGGGTGAGAGGTGATAGAGGCAGCACTGTGCATGATTCCGAGAGGG
TGTGGTGGCACTGCCAGCCGACTGCTGACAGCTTGGGAGCTGCTGTGCCAGGACGTGGGTTACAGCGTGGGCGAG
GAAAGCCTGGCGAGCGTGGCCCTGTAAAGCTTTCTGAGGCGGGAGGCGCTCACTTACCTCTGACTGCCTGGGCG
CTGCGTGTAGCACTTGGCCTACAGGACAGATTTTAGGTGACACCTGGTTATGACAGTCAGAAATTTGAGAAGCT
TCTCACAAGTGATGCACCTTAAATAATCTGCATGCCATTGAGACACCTGCATGTCTGGTGTGTGGTTCAAGTG
TCTTGCCGCCGGCCTTCGGATGTAAACCCACTGATAACGGACAGAAAGAGAATGCCACAAGTGGGTCTTCTGTG
GAAGATGCAGAAGGAGGAAGTTAGTGCTTACATTTTAGTCTTTTTCTCCCTCAAAAAAATAGGTTAAGTTTCACT
GCCAGCTAGAAAATACTGCTTTCTGCCATCGATTGGGGGTGGTTTTTGTCAAATATACTGTTGATAAATATTTAT
TTTTGTAACTTGAAGTGTGTGGTGGCCGTGGGGGAGGGACATGCTGGCAGCAGGCGCCTTCTTCAGCTGTGGGT
CCTAAAGGCCTTTGATCCTTTGAAGAAGAAAGACATGGTATTTGTTTACAGCAGACGCCGACCACTCAGACGGAGGG
GCCCCCTGGGATTCCCTGTCTCAGATGGCCTGGTCTTACGCCTGTGTAGATTTCTTCTCCATTGGGAATGAAGGTG
TCAGGCGGGACTGGAACGTTCTAGATGGTATGTTCCGTGATATTAACAACCTCTAACCAGGACAGACCACAAGCC
ACACTCAGAGGCCTCACTGTGCTGGGGGCTTCGGTGTCCAGGCGCCAGGTGTGGCCACCAGCACCAGGTTTCTGC
CTTCGCGTTGCTGGGGTGCAGTGAGACTGCCACACGCGTGCACATGTGGCTCTGTGGGTGTCTCTAGAGAGGAC
GTGGCCCCCTGCTGCCAGCCCTTGAGCAGCCCGTGTGGGGGCCGAGGGACCCACACAGTGGGGGCCAGCCTCGCT
GGAGGGAGAGCAACCCCTTGCCGATGACCACGCTTGCCGCCATCTCTTAGTTTTCTTTTTACAAAGCGCTTTATT
TTTTTAATAGACAAATCACATTTTGCAAGGCCTTTAATTAATAAGATTCTTCTTTCCTTCATTTTATGCTTTAT
TTCCTGTTTGAAGGCTTACTGTAGAAGTGGCTTACTGTAGAAGCAGCTTGCTGAGCCCCCTCCGAGCGGTCCCCAG
AATTAGCTGGTTTACAACCCCCACCCCTCCCCCGCCCCGCTGTGTACAGGTGTGGATGAGGTGCTCACACTCAGA
AGGACAGGCTTGTCTGCCAGCTCACAAGGGGAGGCTGCAGTGGGTTTTGGGAGCTGGGTTTAGGCCCCCTGGTGTCT
GAGGGCCCAGGCCTTGCCAGCCTCTGCTGCTCCTGCTCCTGGGTTTGAAGATGCAGGCGCATGCCAGCTCCGTG
GCAGCGGTCACTAAGGACAGCCTGACTGTGCCATCTTGGAGCCTCAGGCGGGGCTCCGGAGATAGAAGACAGGTC
GCCGGAGGCTCCCCCTCCTCTCCTCTCCCTCTGCAGATGCTCCCTGGGCGCTACCTTCAGGGTGCCAGGCAGG
AGTGGTCTCAGAACGTGCGCTTCTGATTATTTTACTGGGGTCCATTGTCCAGATTTTTCTTTGATTGTAAATAT
ATTTTTACTTTTTTAGTCTTCTAATTTAATAAATGATCCATATAAAAATAGAGAAATAAGTCCTTTAAGGGAAGG

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FIGURE 1191B

TTTTAAAAAAAAAAAA

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FIGURE 1192

MATTVSTQRGPVYIGELPQDFLRITPTQQQRQVQLDAQAAQQLQYGGAVGTVGRNLNITVVQAKLAKNYGMTRMDP
YCRLRLGYAVYETPTAHNGAKNPRWNKVIHCTVPPGVDSFYLEIFDERAFSMDRIAETHITIPESLRQKVEDK
WYSLSGRQGDDKEGMINLVMSYALLPAAMVMPPQPVVLMP TVYQQGVGYVPITGMPAVCSPGMVPFVALPPAAVNA
QPRCSEEDLKAIQDMFPNMDQEVIRSVLEAQRGNKDAAINSLQMGEET

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FIGURE 1193

GAAGTCCTGGTAATCTGGTCCTTGTTCCCGTCTGGATACCAGCTTCCTTCAGCAGCGCAGGCGGTTCGGTCCCTGA
GGCCCGTGGAAGGAGTCAAACCTGCGGGAATTTTGCAGTTTATCTGCAGGGCTGTTGTTTCCAGCAAGACCCAAA
GCTAGAAAAGGAGGAGGAAGAACTGACCCGATCAGTGCCAGAAGTCATTGTATTCAAAGAAGAATAAGCAAGAA
AGAAAAGAAGGAAGGAAGAGAGGTAGACAGATACAAGATGAAATCCTGTCAAAAAATGGAAGGAAAACCAGAAAA
TGAGAGTGAACCAAAGCATGAGGAAGAGCCAAAGCCTGAGGAAAAGCCAGAAGAGGAGGAGAAGCTAGAGGAGGA
GGCCAAAGCAAAAGGAACTTTTAGAGAAAGGCTGATTCAATCTCTCCAGGAGTTTAAAGAAGATATACACAACAG
GCATTTAAGCAATGAAGATATGTTTAGAGAAGTGGATGAAATAGATGAGATAAGGAGAGTCAGAAAACAACTTAT
AGTGATGCGTTGGAAGGTTAATCGAAACCATCCTTACCCCTATTTAATGTAGTTTACCTTGATTTTTATCTGATA
TTACAATACCATATAGCTTGCTTTTTATTAGCATTTCCCTGATATTCCTTTGTCCATATTTCTACTTATAACCTG
TTGCTATTAATGGTTTTAGATGTATCTCTTGTTATCTGCATCTCATTTGTTTATTGTATTTTGAACCAATCTACAA
GTCTCTGTCTTTAATAAAAGAACTTTACACATTTGTAAAAAGAGGTTCTTGGAAGATATAAAATGGAAAAAG
GCTAAGTAATATGTGAATATCATATTTTGAAGGTAAAAAGTACATTTGTATATTACATATATGGACATAACTT
GTGAAGGATGAAAGAAAGTCAGCCTCTCGGTGGTGGGATTATGAATGATTTTTCTCCTTTTGCTTGTTAGTATTT
TCTATATTCTAAAATTAACACACATTATTATAGCTAGAATATAAAAGTTTTATAAAAAAAAAA

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FIGURE 1194

MKSCQKMEGKPENESSEPKHEEHPKPEEKPEEEEEKLEEEAKAKGTFRERLIQSLQEFKEDIHNRHLSNEDMFREVD
EIDEIRRVNRNKLIVMRWKVNRNHPYPYLM

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FIGURE 1195

GTTCGCGGGTGGTTGTTGCTCTCGGGGCCGTGTGGAGTAGGTCTGGACCTGGACTCACGGCTGCTTGGAGCGTCC
GCCATGAGGAGAAAGTGAGGTGCTGGCGGAGGAGTCCATAGTATGTCTGCAGAAAGCCCTAAATCACCTTCGGGAA
ATATGGGAGCTAATTGGGATTCCAGAGGACCAGCGTTACAAAGAACTGAGGTGGTAAAGAACATATCAAGGAA
CTCCTGGATATGATGATTGCTGAAGAGGAAAGCCTGAAGGAAAGACTCATCAAAAGCATATCCGTCTGTCAGAAA
GAGCTGAACACTCTGTGCAGCGAGTTACATGTTGAGCCATTTTCAGGAAGAAGGAGAGACGACCATCTTGCAACTA
GAAAAAGATTTGCGCACCCAAGTGAATTGATGCGAAAACAGAAAAAGGAGAGAAAAACAGGAAGTGAAGCTACTT
CAAGAGCAAGATCAAGAACTGTGCGAAATTCTTTGTATGCCCCACTATGATATTGACAGTGCCTCAGTGCCCAGC
TTAGAAGAGCTGAACCAAGTTCAGGCAACATGTGACAACCTTTGAGGGAAACAAAGGCTTCTAGGCGTGAGGAGTTT
GTCAGTATAAAGAGACAGATCATCTGTGTATGGAAGAATTAGACCACACCCCAGACACAAGCTTTGAAAGAGAT
GTGGTGTGTGAAGACGAAGATGCCTTTTGTTTGTCTTTGGAGAATATTGCAACACTACAAAAGTTGCTACGGCAG
CTGGAATGCAGAAATCACAAAATGAAGCAGTGTGTGAGGGGCTGCGTACTCAAATCCGAGAGCTCTGGGACAGG
TTGCAAATACCTGAAGAAGAAAAGAGAAGCTGTGGCCACCATTATGTCTGGGTCAAAGGCCAAGGTCCGGAAAGCG
CTGCAATTAGAAGTGGATCGGTTGGAAGAACTGAAAATGCAAAACATGAAGAAAGTGATTGAGGCAATTCGAGTG
GAGCTGGTTCACTACTGGGACCAGTGCTTTTATAGCCAGGAGCAGAGACAAGCTTTTGCCCCCTTTCTGTGCTGAG
GACTACACAGAAAGTCTGCTCCAGCTCCACGATGCTGAGATTGTGCGGTTAAAAAACTACTATGAAGTTCACAAG
GAACTCTTTGAAGGTGTCCAGAAGTGGGAAGAAACCTGGAGGCTTTTCTTAGAGTTTGAGAGAAAAGCTTCAGAT
CCAAATCGATTTACAAACCGAGGAGGAAATCTTCTAAAGAAGAAAAACAACGAGCCAAGCTCCAGAAAATGCTG
CCCAAGCTGGAAGAAGAGTTGAAGGCACGAATTGAATTGTGGGAACAGGAACATTCAAAGGCATTTATGGTGAAT
GGGCAGAAATTCATGGAGTATGTGGCAGAACAAATGGGAGATGCATCGATTGGAGAAAAGAGAGAGCCAAGCAGGAA
AGACAACTGAAGAACAACAAAACAGACAGAGACAGAGATGCTGTATGGCAGCGCTCCTCGAACACCTAGCAAGCGG
CGAGGACTGGCTCCCAATACACCGGGCAAAGCACGTAAGCTGAACACTACCACCATGTCCAATGCTACGGCCAAT
AGTAGCATTCGGCCTATCTTTGGAGGGACAGTCTACCACTCCCCCGTGTCTCGACTTCCTCCTTCTGGCAGCAAG
CCAGTCGCTGCTTCCACCTGTTTCAAGGAAGAAAACACCCCGTACTGGCAGGCATGGAGCCAACAAGGAGAACCTG
GAGCTCAACGGCAGCATCCTGAGTGGTGGGTACCCTGGCTCGGCCCCCTCCAGCGCAACTTCAGCATTAAATCT
GTTGCCAGCACCTATTCTGAGTTTGCGAAGGATCCGTCCCTCTCTGACAGTTCCACTGTTGGGCTTCAGCGAGAA
CTTTCAAAGGCTTCCAAATCTGATGCTACTTCTGGAATCCTCAATTCAACCAACATCCAGTCCCTGAGAAGCCCTG
ATCAGTCAACCAGCTGTGGCTTCCGTGTGCCTAGACTGGACCTAATTATATGGGGGTGACTTTAGTTTTTCTTCAG
CTTAGGAGTGCTTGAAACCTTGGCCAGGTTCCATGACCATGGGCCTAACTTAAAGATGTGAATGAGTGTTACAGT
TGAAAGCCCATCATAGGTTTATGTTGCTCCTAGGAGACTTGGTTTTGACTTATATACATGAAAAGTTTTATGGCAAGA
AGTGCAAATTTTAGCATATGGGGCCTGACTTCTCTACCACATAATTCTACTTGCTGAAGCATGATCAAAGCTTGT
TTTATTTTACCAGTGTAGGAAAATGATTGACTATGCCCATCCCTGGGGGTAAATTTTGGCATGTATACCTGTAAC
AGTAATTAACATCTTTTTTGTAGGATGTTCAATTAATGCTGTAGCTATCATAGCTTTGCTCTTACCTGAAGC
CTTGTCCTCCACACACAGGACAGCCTTCTCCTGAAGAGAATGTCTTTGTGTGTCCGAAGTTGAGATGGCCTGCC
CTACTGGCAAAGAGGTGACAGGAAGGCTGGGAGCAGCTTTGTTAAATTTGTGTTTCACTTCTGTTACACAGTGCATT
GCCCTTTGTTGGGGGTATGCATGTATGAACACACATGCTTGTGCGAACGCTTTCTCGGCGTTTGTCCCTTGGCTC
TCATCTCCCCCATTCCTGTGCCTACTTTGCCTGAGTTCTTCTACCCCCGAGTTGCCAGCCAGATTGGGAGTCTG
TTTGTTCATAGGGTTGAGCTGTCTTTGTGCTGGAGATCTGGAACCTTGCACATGTCACTACTGGGGAGGTGTTT
CTGCTCTAGCTTCCACGATGAGGCGCCCTCTTTACCTATCCTCTCAATCACTACTCTTCTTGAAGCACTATTATT
TATTCTTCCGCTGTCTGCCTGCAGCAGTACTACTGTCAACATAGTGTAATGGTTCTCAAAGCTTACCAGTGTG
GACTTGGTGTAGCCACGCTGTTTACCTCATAACGTACGTGTCTGTTTTTAAATATACAATTATTCTTAAAAA
TAAATTAAAATCGTATACTTACATTTCAAAAAAAAAAAAAAAAAA

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FIGURE 1196

MRRSEVLAEESIVCLQKALNHLREIWELIGIPEDQRLQRTTEVVKKHIKELLDMMIAEEESLKERLIKSISVCQKE
LNTLCSELHVEPFQEEGETTILQLEKDLRTQVELMRKQKKERKQELKLLQEQQELCEILCMPHYDIDSASVPSL
EELNQFRQHVTTLRETKASRREEFVSIKRQIILCMEELDHTPDTSFERDVCEDEDAFCLSLENIATLQKLLRQL
EMQKSQNEAVCEGLRTQIRELWDRLOIPEEEREAVATIMSGSKAKVRKALQLEVDRLEELKMQNMKKVIEAIRVE
LVQYWDQCFYSQEQRQAFAPFCAEDYTESLLQLHDAEIVRLKNYYEVHKELFEGVQKWEETWRLFLEFERKASDP
NRFTNRGGNLLKEEKQRAKLQKMLPKLEELKARIELWEQEHKAFMVNGQKFMEYVAEQWEMHRLEKERAKQER
QLKNKKQTETEMLYGSAPRTPSKRRGLAPNTPGKARKLNTTMSNATANSSIRPIFGGTVYHSPVSRLLPPSGSKP
VAASTCSGKKTPTGRHGANKENLELNGSILSGGYPGSAPLQRNFSINSVASTYSEFAKDP SLSDSSTVGLQREL
SKASKSDATSGILNSTNIQS

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FIGURE 1197A

GCAGCGTGTAGTGCAGAGTGGGGCGGACGCGCGCAGCCCGCCCGCCGCGGACGACCAAGGAGTTGGCATCCTTTG
GAAGAGTTTCGTGAAAGCTTTCTGCCAGAGCTCCTGGACCAATGCATCTTCCCACCACCTTAAACCACTGAGCAG
TTCAGAGCCCCAGTTGCAGACGACTTGTCTGCTGCCACCACCATGAGTTCTGAATGTGATGGTGGTTCCAAAGCTGT
GATGAATGGCTTGGCACCTGGCAGCAATGGGCAAGACAAAGACATGGATCCTACAAAAATCTGCACTGGGAAGGG
AGCGGTGACTCTCCGGGCTCGTCTTCTACAGGGAAACCCCAAGCAGTAGCCCTGCGAGCCCTCAGGAAACCCG
GCAACACGAAAGCAAACCAGGTCTGGAGCCAGAGCCTTCTTCAGCAGATGAGTGGAGGCTTCTTCCAGTGCTGA
TGCCAATGGAAATGCCAGCCCTCTTCACTCGCTGCCAAGGGCTACAGAAGTGTGCATCCCAACCTTCTTCTGA
CAAGTCCCAGGATGCCACTTCTTCCAGTGCAGCCAGCCGGAGGTAATAGTTGTCCCTCTCTACCTGGTTAATAC
TGACAGAGGGCAAGAAGGCACTGCCAGACCTCCAACACCTCTGGGGCCTCTTGGCTGCGTCCCCACAATCCCAGC
GACTGCCTCTGCCGCTCACCTCTGACCTTCCGACTCTAGATGATTTTATTCCCCCTCATCTGCAGAGGTGGCC
CCACCACAGCCAGCCAGCCCGCGCTCTGGCTCCTTTGCCCCCATTAGCCAGACGCCACCATCCTTCTCACCACC
ACCTCCGCTGGTCCCTCTGCCCCGGAGGACCTCCGCAGAGTCTCGGAGCCTGACCTCACGGGAGCTGTTTCGAG
TACCGATTCCAGTCCCTCTACTAAATGAAGTTTCTTCTTCCCTTATTGGAAGTGAATCCCCAAGCCTTTCCATCAGT
TAGCAAGCCTTCATCCGCTATCCCTCCACAACGATTGTCAATCCTACTATTGTGCTCTTGCAACACAATCGAGA
ACAGCAAAACGACTCAGTAGCCTTTTCAATCCTGTCTCAGAAAGAAGAGTGGGAGAGCAGGACTCAGCACCAC
CCAGGAAAAACCCACCTCACCTGGCAAGGCTATTGAAAAAGAGCAAAGGATGACAGTAGGCGGGTGGTGAAGAG
CACTCAGGACTTAAGCGATGTTTCCATGGATGAAGTGGGCATCCCACTCCGGAACACTGAGAGATCAAAAGACTG
GTACAAGACTATGTTTAAACAGATCCACAACTGAACAGAGATGATGATTGAGATCTGTACTCTCCAGATACTC
ATTTTCTGAAGACACAAAATCTCCCCTTTCTGTGCCTCGCTCAAAAAGTGAGATGAGCTACATTGATGGTGAGAA
GGTAGTCAAGAGGTTCGGCCACACTACCCCTCCCAGCCCGCTCTTCCCTCACTGAAGTCAAGCTCAGAAAGAAATGA
CTGGGAACCCCCAGATAAGAAAGTAGATACAAGAAAATATCGTGCAGAGCCCAAGAGCAATTACGAATATCAGCC
TGGCAAGTCTTCCGTTCTGACCAACGAAAAGATGAGCTCAGCCATCAGCCCTACTCCGGAATTTCTTCAGAGAC
TCCTGGATATATATATTCTTCCAACCTCCATGCAGTGAAGAGGGAATCAGACGGGGCTCCTGGGGATCTCACTAG
CTTGGAGAATGAGAGACAAAATTTATAAAAGTGTCTTGAAGGTGGTGACATCCCTCTTCAGGGCCTGAGTGGGCT
CAAGCGACCATCCAGCTCTGCTTCCACTAAAGATTGAGAATCGCCAAGACATTTTATACCAGCTGATTACTTGGA
ATCCACGGAAGAATTTATTTCGAAGACGTGATGATAAAGAGATGAGACCTGCCAGAGCCAAATTTGACTTTAA
AGCTCAGACACTAAAGGAGCTTCTCTGCAAGGGAGATATTGTTTACATTTATAAGCAAATTGATCAGAACTG
GTATGAAGGAGAACACCACGGCCGGGTGGGAATCTTCCACGCACCTACATCGAGCTTCTTCTCCTGCTGAGAA
GGCACAGCCCCAAAAGTTGACACCAGTGCAGGTTTTTGAATATGGAGAAGCTATTGCTAAGTTTAACTTTAATGG
TGATACACAAGTAGAAATGTCTTTCAGAAAGGGTGAGAGGATCACACTGCTCCGGCAGGTAGATGAGAACTGGTA
CGAAGGGAGGATCCCGGGGACATCCCGACAAGGCATCTTCCCCATCACCTACGTGGATGTGATCAAGCGACCACT
GGTGAAAAACCTGTGGATTACATGGACCTGCCTTTCTCTCTCCCCAAGTCGCAGTGCCACTGCAAGCCCACA
GCAACCTCAAGCCCAGCAGCGAAGAGTCAACCCGACAGGAGTCAAACCTCACAAGATTTATTTAGCTATCAAGC
ATTATATAGCTATATACCACAGAATGATGATGAGTTGGAAGTCCGCGATGGAGATATCGTTGATGTCATGGAAAA
ATGTGACGATGGATGTTTGTGGTACTTCAAGAAGGACAAAGCAGTTTGGTACTTTTCCAGGCAACTATGTAAA
ACCTTTGTATCTATTAAGAGACTGAAAACCATGGAGATTATTTTTATTGGAGGAGGAAGCATCATTTCATGAACCG
ATCTTTTTAGTTGAGTCAGTAGGAAAATTAATACAGTGGATAAAGTAAGAAGCAAAAAGACAGGGACAGAGAAGTG
TTGTGTTTAAAACCAAGCCTGTCTAAGGTTACTGTGTATTAGACAGGGCCGAAGTGTGCTGAGCAAAAAGA
ATTGAAGCAAATTGTATTTACTTAGCCGCTTCTGGGAGCCACTTCAGCCTTTCCCCCTCCCCCTCCACTTCTTGGGT
AATCTGACCTGAAGCATAGTCCAGGAGCAGAGTTAGCCAGAAATGCCTCCTGCTGCCCCAGCCTTAGAGAGCTCC
CATCTCAATCATTGAGCCTGAAGGCTTCAAGCCCAAGAATGCAACAAGACCCCCAGCCTACATTTCTCAGCTCCC
CTGGAGCCAGCTGATCCTGTAACGCTGCTGGAGGTGAGTCTGAGCTACCAAGACTGTCCCTAGACAAAGGTGGAG
TCCCCCACACTGCCCAAGACCAATCCCTCACTCAACCTGCTGAGGTGTGGATGGGGAAACAGAGGCAAACTGA
GGCACCTGATGCATTGAGCCTGCTGTGCAGCAGTGCCATTGACTGCCCTGATGTTTCAAGAGAAACGCACACAAG
GTTTGGCCATGAGAATTGGGGAGCAGATGGCCAAGCAGATAGGTTATGTCTGTTTTCTGAGTGATGAAGTCAGGA
AGCCCTGTGGCTCTGGAGGCCACTTGTGGTTCACTTTTTCCCATATCCTTGGCTTTTAGAAATGGTTACCTTCA
GGACAGTGCAGCTGCATTTATCAGAGCACTATTGCTAAGTTTTCTTTCTGGCTTGTGTTTTCTGGGACAGTTT
AGAATTGGGAGGCCTATTCTCATAGAACACCAAAAATGATGTTTCAGTGATTCAATTAACATACACCAATGTACTC

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FIGURE 1197B

TGGCTGCTGGGGGGACAACCATAAGCAAGACATGCCCAGGGTTTGCCGTGGCTCCAGATCTACTCCCTGTAGGAG
TTCAAGGATCACACAAACGGTAGTAACCAGGGTTGTGAATCTGAGTACACCCTGGCAAGGCTTCTCTTCAGACTG
AAGCAGCAATTCTGCCACTACCAGCAGCAACCAGGACGTCTGTTCTTTGTGGGGGCCAGATCAGAAGAGAGAGGC
CCCTGTGACGCCCCGGGCTGCTTGGTCACTCTGTCCAATTCAAGGATGTTTATCGGCCTCTCTTAGATCCTGA
GTGAGACAAATACAGAAATGACCCATTCCCTGCCACCAGAACTCAGAGGTGATTGGGGGAGACTGACACAGGAA
AATGAACCTTAATCAAGAGAGACTGTGATATGTGCTAAGAAGGGTGTGAGGGAGGGAGAGATGAATTTCCCTGGA
GGGATCCTAGAAAGCATTGTCTATTGCCATCTCCATTAGCTCACTTTTAAACAACCTAGGGTGCTGGAAGAACCT
TTGTCTGAGGGTAGTTCATAGCTGGAAATACTTGGAATATTTTCCAGAGTCTCTAACTCTCATCTTCCCCCACA
GATACACATCCAAGCTCACAAATAGGAGTAGCAATTCTAGGTGGTAGGGTTGTGTACGGAACCCCTGGCTGTCTG
CATATATCTCAGAATTACCCAGGACCATTGTCCCAAAGTCTAGAGTCTTTACAGGTAGGCAAAATTTGTTTTCA
ATGCCTGTGCCTCAGCTGCTGTCAAAATACCCATCTTAGGATCCCATCAGCTTCCCATCCCCACCAGACAGCC
ACAGTACCCTCACTTTCTCCCTATTGTTCTTTCAAATCCTGTTCTCAGGAAAGAACTGCCACTAATTCATTAC
ACTAAGGTGTAAATGATTGATAATAGGAATGAGTTACCTCTTCCACAGACATTTGTTTTTAAGTATGACAGAGC
AGGGCCTTAATCCCAAGGGAAAAGGTTATGGAACCTGGAGGGGGTGAGCTTTCTGGGTAGAAGGAGACTTCTTGAA
TTTCTTAAAACCCAGTAAGAGTAAGACCTGTTGTTTTGGAAGGTCTGCTCCACCATCTAAGAGCACTGTTTTTT
TTTTTTGTTGTTGTTGTTGTTTTACGGTCTCTGAGGGAATATAGTAAAAATGCATATGCACGTGCAATTTGCAC
GGCAGCATTTACCGATTGTGGACTGTATTGGCTAATGTGTTTCTGGTCTTTAGATGCAAACCATTAATAACAC
TATCTTATCTCATAGTTTTTTCAGGGGTGCTTCTTGATTAGTAGGGAATTTTGAACACCTCTTTAAATACAGCTA
GAAAATAAAACCAATTTGTAAAGCCACATTTGCATATGATGCCAGCCTCACGCATTTGTATATCTCCAGAAATTC
AGGTATGCCTCACCAATTTGCCCGTCTTTAATAAAATCTTGTTTAAATTTGCATCACGTGCGCTTCCCTATGTA
TGACGAAACAAGAAACAGAGATTTCCAATTGCTCTTTTGTCTTCAGACATTTAGTAATATAAAGTACCTATTTTT
ATGCTGAAATGTTTATACAGGTTTATTAATAGCAAGTGCAACTAAGTGGCGGCATGCCTTGCAACACATTTTGAT
ATATTAGCCATGCTTCCGGGTAAAGGCAAGCCCCAACTCCTTATCTTTTGAGTCTCTCTGGGATCAGTAAAAG
AAAAAAAAAATAATGTGCTTAAGAAGTGGGACTGTAAATATGTATATTTAACTTTGTATAGCCCATGTACCTACC
TTGTATAGAAAAATAATTTTAAAAATTTGAATGGAAGGGGTAAAGGAAGTCATGAAGTTTTTTTGCATTTTTAT
TTAAATGAAGGAATTCCAAATAACTCACCTACAGATTTTTTAGCACAAAAATAGCCATTGTAAAGTGTTAAATTT
ACGATAAGTATTCTATTGGGGAGGAAAGGTAACCTCTGATCTCAGTTACAGTTTTTTTTTCCTTTTTAATTTCAAT
ATTTTGGGTTTTTGGTTTTTGCAGTCCTATTTATCTGCAGTCGTATTAAGTCCATTGCTAGAAATAGGTTACTAC
AAAAAGGTTATATTCTGAAAGAAAAATAACTGACATTATATATAACCAATTAATTTAAAGTATTGCCATTTAAA
TTACACACTGAGAGCATGTCCTATGCAGACATAGATTTTTCTGTTCAATTTATTTTTCTTCATTGCAGTGGATTGA
TTTGATAAATAGATGTGTTGAATTACTACATTTGCTGTACATATTATTTAATAAACTTTATTCAGAAATTGCGTGG
CAAAAAAAAAAAAAAAAAA

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FIGURE 1198

MSSECDGGSKAVMNGLAPGSNGQDKMDPTKICTGKGAVTLRASSSYRETPSSSPASPQETROHESKPGLEPEPS
SADEWRLSSSADANGNAQPSSLAAGYRSVHPNLPSDKSQDATSSSAAQPEVIVVPLYLVNTDRGQEGTARPPTP
LGPLGCVPTIPATASAA SPLTFPTLDDFIPPHLQRWPHHSQPARASGSFAPISQTPPSFSPPPPLVPPAPEDLRR
VSEPDLTGAVSSTDSSPLLNEVSSSLIGTDSQAFPSVSKPSSAYPSTTIVNPTIVLLQHNREQQKRLSSSLSDPVS
ERRVGEQDSAPTQEKPTSPGKAIEKRAKDDSRRVVKSTQDLSDVSMDEVGIPLRNTERSKDWYKTMFKQIHKLNR
DDSDLYSPRYSFSEDTKSPLSVPRSKSEMSYIDGKVVKRSATLPLPARSSSLKSSSERNDWEPPDKKVDTRKY
RAEPKSIYEQPGKSSVLTNEKMSSAISPTPEISSETPGYIYSSNFHAVKRES DGAPGDLTSLENERQIYKSVLE
GGDIPLQGLSGLKRPSSSASTKDSESPRHFIPADYLESTEEFIRRRHDDKEMRPARAKFDFKAQTLKELPLQKGD
IVYIYKQIDQNWYEGEHGGRVGFIPRTYIELLPAAEKAQPKKLTVPQVLEYGEAIAKFNFNNGDTQVEMSF RKGER
ITLLRQVDENWYEGRIPGTSRQGIFPITYVDVIKRPLVKNPVDYMDLPFSSSPSR SATASFPQQPQAQQRRTVTPDR
SQTSQDLFSYQALYSYIPQNDDELELRDGDIVDMEKCDGWFVGT SRRTKQFGTFPGNYVKPLYL

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FIGURE 1199

GCACGAGGCAGGCCGAAGTCCGCAGCCCCGGCTCGGCGCCCGCTGCTTGACCTCCCGGATGGTGCTGACTGCTC
CCTAAGCGGCGGCGGCGGCGAGTCGTGAGGACGCGCCGCGGAGGCTGTTTCGGGGTCGAGGCTTCCCGTCGCCGGC
ACTTCCTCTTGCGGCGCCCGTGC GCGGCGGCGCCCGGCAGGCGGGATGAGCGGCGCGGCTCCGGGAACGGCCGCG
CATCGGCGCCCCGGCTGCTTCTGCTCTTTCTGGTTCCGCTGCTGTGGGCCCCGGCTGCGGTCCGGGCCGGCCAG
ATGAAGACCTTAGCCACCGGAACAAAGAACC GCGCGCGGCCAGCAGCTGCAGCCGCAGCCTGTGGCTGTGC
AGGGCCCCGAGCCGGCCCGGGTCGAGAAAATATTTACACCAGCAGCTCCAGTTCATACCAATAAAGAAGATCCTG
CTACCCAACTAATTTGGGATTTATCCATGCATTTGTCTGCTGCCATATCAGTTATTATTGTATCTGAATTGGGTG
ATAAGACATTTTTTATAGCAGCCATCATGGCAATGCGCTATAACCGCCTGACCGTGCTGGCTGGTGCAATGCTTG
CCTTGGGACTAATGACATGCTTGTGTCAGTTTTGTTTGGCTATGCCACCACAGTCATCCCAGGGTCTATACATACT
ATGTTTCAACTGTATTATTTGCCATTTTGGCATTAGAATGCTTCGGGAAGGCTTAAAGATGAGCCCTGATGAGG
GTCAAGAGGAAGTGAAGAAGTTCAAGCTGAATTAAAGAAGAAAGATGAAGAATTTCAACGAACCAAACCTTTTAA
ATGGACCGGGAGATGTTGAAACGGGTACAAGCATAACAGTACCTCAGAAAAAGTGGTTGCATTTTATTTTACCCA
TTTTTGTTCAGCTCTTACATTAACATTCTTAGCAGAATGGGGTGATCGCTCTCAACTAACTACAATTGTATTGG
CAGCTAGAGAGGACCCCTATGGTGTAGCCGTGGGTGGAAGTGTGGGGCACTGCCTGTGCACGGGATTGGCAGTAA
TTGGAGGAAGAATGATAGCACAGAAAATCTCTGTGCAAGTGTGACAATCATAGGAGGCATCGTTTTTTTGGCGT
TTGCATTTTCTGCACTATTTATAAGCCCTGATTCTGGTTTTTAAACGCTGTTTGTTCATCTATATTTAGTTTAAAA
TAGGTAGTATTATCTTCTGTACATAGTGACATTACAATAAAAGTATGGGAAAAAATACTGTATTTTGTAGGC
ACTGGATTTTGTGAGTTTGACCCCTTATTATGTCTGGAGGATATAATCATTGGATTCCCTATCTTGTGCCAAGGGA
GTTTTTAAAAGGAAACCCCTGACTTTTTTAAGTGTGGGGGTTTTTTCTTCTCTTCCCAACCTTAATTATGGTTTAA
ATGGTCCTCATTTTTCTTTTGGTGCAGAACCGTTGTGTCAGTGGGGTCTACCATGCAATTTTCTTTTACGACTGAC
CCCTTTTTAAGGAATACAAATTTCTCCTTCATCACTTAGGTGTTTTAAGATGTTTACCTTAAAGTTTTCTTGGG
GAAAGAATGAATTAATTTCTATTTCTTAAACATTTCCCTGAGCCAGTAAACAGTAGTTTAAATCATTGGTCTTTT
CAAACTAGGTGTTTAAAAAAGAGACATATATGATATTGCTGTTATATCAATAACATGGCACAACAAGAACTGT
CTGCCAGGTCAATCTTCTCTTTTTTTTTTAATTGGGTAGGACACCCCATATAAAAACCATCCATATTTGGCCAT
GTGGGATTACCCAAATAAAAGAGGAATCCATGGATGGATTGAGAATTTTTTTAAATTTAATAAACCAACCAACCC
TTGGTTCCCATATTTAATTAAAGGAGGGTTGCCAGT

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FIGURE 1200

MSGRGSGNGRASAPRLLLLFLVPLLWAPAAVRAGPDEDLSHRNKEPPAPAQQLQPQPVAVQGPEPARVEKIFTPA
APVHTNKEDPATQTNLGFIAHFVAAISVIVSELGDKTFFIAAIMAMRYNRLTVLAGAMLALGLMTCLSVLFGYA
TTVIPRVYTTYVSTVLFAIFGIRMLREGLKMSPDGEQEELEEVQAEKKKDEEFQRTKLLNGPGDVETGTSITVP
QKKWLHFISPIFVQALTLTFLAEWGDRSQLTTIVLAAREDPYGVAVGGTVGHCLCTGLAVIGGRMIAQKISVRTV
TIIGGIVFLAFAFSALFISPD SGF

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FIGURE 1201

GGGCTGACTGGAGGCTGGCGGACAGGCGACAGACCTGCGGCAGGACCAGAGGAGCGAGACGAGCAAGAACCACAC
CCAGCAGCAATGTCAGCGGAAGTGGAACCTCAGAGGGGGTAGACGAGTCAGAAAAAAGAAGCTCTGGGGCCCTA
GAAAAGGAGAACCAAATGAGAATGGCTGACCTCTCGGAGCTCCTGAAGGAAGGGACCAAGGAAGCACACGACCGG
GCAGAAAACACCCAGTTTGTCAAGGACTTCTTGAAAGGCAACATTAAGAAGGAGCTGTTTAAGCTGGCCACCACG
GCACTTTACTTTCACATACTCAGCCCTCGAGGAGGAAATGGAGCGCAACAAGGACCATCCAGCCTTTGCCCTTTG
TACTTCCCCATGGAGCTGCACCGGAAGGAGGCGCTGACCAAGGACATGGAGTATTTCTTTGGTGAAAAC TGGGAG
GAGCAGGTGCAGTGCCCCAAGGCTGCCCAGAAGTACGTGGAGCGGATCCACTACATAGGGCAGAACGAGCCGGAG
CTACTGGTGGCCCATGCATACACCCGCTACATGGGGGATCTCTCGGGGGGCCAGGTGCTGAAGAAGGTGGCCCG
CGAGCACTGAAACTCCCCAGCACAGGGGAAGGGACCCAGTTCTACCTGTTTGAGAATGTGGACAATGCCCAGCAG
TTCAAGCAGCTCTACCGGGCCAGGATGAACGCCCTGGACCTGAACATGAAGACCAAAGAGAGGATCGTGAGGAG
GCCAACAAGGCTTTTGGAGTATAACATGCAGATATTCAATGAAGTGGACCAGGCCGGCTCCACACTGGCCAGAGAG
ACCTTGGAGGATGGGTTCCCTGTACACGATGGGAAAGGAGACATGCGTAAATGCCCTTTCTACGCTGCTGAACAA
GACAAAGGTGCCCTGGAGGGCAGCAGCTGTCCCTTCCGAACAGCTATGGCTGTGCTGAGGAAGCCCAGCCTCCAG
TTCATCCTGGCCGCTGGTGTGGCCCTAGCTGCTGGACTCTTGGCCTGGTACTACATGTGAAGCAGCCATCATGCC
ACACCGGTACCCTCCTCCCGACTGACCACTGGCCTACCCCTTTCTCCAGCCCTGACTAAACTACCACCTCAGGTG
ACTTTTTAAAAAATGCTGGGTTTAAGAAAGGCAACCAATAAAAGAGATGCTAGAGCCTCGTCTGACAGCATCCTC
TCTATGGGCCATATTCCGCACTGGGCACAGGCCGTCACCCCTGGGAGCAGTCGGCACAGTGCAGCAAGCCTGGCCC
CCGACCCAGCTCTACTCCAGGCTTCCACACTTCTGGGCCCTAGGCTGCTTCCGGTAGTCCCTGTTTTTGCAGTAC
ATGGGTGACTATCTCCCTGTTGGAGGTGAGTGGCCTGTAAGTCCAAGCTGTGCGAGGGGGCCTTGCTGGATGCT
GCTGTACAACCTTCTGGGCCTCTCTTGGACCTGGGAGTGAGGTGGGTGTGGGTGGAAGCCTCAGAGGCCTTGGG
AGCTCATCCCTCTCACCCAGAATCCCTCTAACCCCTGGGTGCGGTTTGCTCAGCCCCAGCTTATCTCCTCCTCCG
CCTGTGTAAATGCTCCAGCACTCAATAAAGTGGGCTTTGCAAGCTAAAAAAAAAAAAAAAAA

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FIGURE 1202

MSAEVETSEGVDESEKKNNGALEKENQMRMADLSELLKEGTKEAHDRAENTQFVKDFLKGNIKKELFKLATTALY
FTYSALEEEEMERNKDHAPAFAPLYFPMELHRKEALTKDMEYFFGENWEEQVQCPKAAQKYVERIHYIGQNEPELLV
AHAYTRYMGDLGGQVLKKVAQRALKLPSTGEGTQFYLFENVDNAQQFKQLYRARMNALDLNMKTKERIVEEANK
AFEYNMQIFNELDQAGSTLARETLEDGFPVHDGKGDMRKCPFYAAEQDKGALEGSSCPFRTAMAVLRKPSLQFIL
AAGVALAAGLLAWYYM

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FIGURE 1203

GGCGAAGGAGATCAGCAGGACGCTGCGCACAAACATGGGCAACCACCTGCCGCTCCTGCCTGCAGAGAGTGAGGAA
GAAGATGAAATGGAAGTTGAAGACCAGGATAGTAAAGAAGCCAAAAACCAAACATCATAAATTTTGACACCAGT
CTGCCGACATCACATACATACCTAGGTGCTGATATGGAAGAATTTTCATGGCAGGACTTTGCACGATGACGACAGC
TGTCAGGTGATTCCAGTTCTTCCACAAGTGATGATGATCCTGATTCGCCGACAGACATTACCTCTTCAGCTTTTT
CACCTCAAGAAGTCAGTATGGTGCGGAATTTAATTCAGAAAGATAGAACCTTTGCTGTTCTTGCATACAGCAAT
GTACAGGAAAGGGAAGCACAGTTTGAACAACAGCAGAGATATATGCCTATCGAGAAGAACAGGATTTTGAAT
GAGATAGTGAAAGTGAAAGCAATTGGAAGACAAAGTTCAAAGTCCTTGAGCTAAGAACACAGTCAGATGGAATC
CAGCAAGCTAAAGTGCAAATTCCTCCCGAATGTGTGTTGCCTTCAACCATGTCTGCAGTTCAATTAGAATCCCTC
AATAAGTGCCAGATATTTCTTCAAACCTGTCTCAAGAGAAGACCAATGTTTCATATAAATGGTGGCAGAAATAC
CAGAAGAGAAAGTTTCATTGTGCAAACTAACTTCATGGCCTCGCTGGCTGTATTCTTATATGATGCTGAGACC
TTAATGGACAGAATCAAGAAACAGCTACGTGAATGGGATGAAAATCTAAAAGATGATTCTCTTCTTCAAATCCA
ATAGATTTTTCTTACAGAGTAGCTGCTTGTCTTCTATTGATGATGTATTGAGAATTCAGCTCCTTAAAAATTGGC
AGTGCTATCCAGCGACTTCGCTGTGAATTAGACATTATGAATAAATGTACTTCCCTTTGCTGTAAACAATGTCAA
GAAACAGAAATAACAACCAAAAATGAAATATTCAGTTTATCCTTATGTGGGCCGATGGAGCTTATGTGAATCCTC
ATGGATATGTGCATGAGACACTTACTGTGTATAAGGCTTGCAACTTGAATCTGATAGGCCGGCCTTCTACAGAAC
ACAGCTGGTTTTCTGGGTATGCCTGGACTGTTGCCAGTGTAAGATCTGTGCAAGCCCATATTGGATGGGAAGTT
TACGGCCACCAAAAAAGACATGTCACCTCAAAAATTTGGGGCTTAACGCGATCTGCTCTGTTGCCACGATCCC
AGACACTGAAGATGAAATAAGTCCAGACAAAGTAATACTTTGCTTGTAACAGATGTGATAGAGATAAAGTTATC
TAACAAATTGGTTATATTCTAAGATCTGCTTTGGAAATTATTGCCTCTGATACATACCTAAGTAAACATAACATT
AATACCTAAGTAAACATAACATTACTTGGAGGGTTGCAGTTTCTAAGTGAACTGTGATTTGAACTTTTAAGTAT
ACTTTAGGAAACAAGCATGAACGGCAGTCTAGAATACCAGAAACATCTACTTGGGTAGCTTGGTGCCATTATCCT
GTGGAATCTGATATGTCTGGTAGCATGTCATTGATGGGACATGAAGACATCTTTGGAAATGATGAGATTATTTCC
TGTGTTAAAAAAAAAAAAA

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FIGURE 1204

MGNHLPLLPAESEEEDEMEVEDQDSKEAKKPNIINFDTSLPTSHTYLGADMEEFHGRTLHDDDDSCQVIPVLPQVM
MILIPGQTLPLQLFHPQEVSMVRNLIQKDRTFAVLAYSINVQEREAQFGTTAEIYAYREEQDFGIEIVKVKAIGRQ
RFKVLELRTQSDGIQQAKVQILPECVLPSTMSAVQLESLNKCQIFPSKPVSREDQCSYKWWQKYQKRKFHCANLT
SWPRWLYSLYDAETLMDRIKKQLREW DENLKDDSLPSNPIDFSYRVAACLPIDDLRIQLLKIGSAIQRLRCELD
IMNKCTSLCCKQCQETEITTKNEIFSLSLCGPMELM

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FIGURE 1205

GCAGAGGTGCGGCCGGGAGGCGCGGGAGGCTGGAGCTGGAGGCGCGGCCGGTGAGCTGAGAACC**ATGTGTG**
CTCAGTATTGCATCTCCTTTGCTGATGTTGAAAAAGCTCATATCAACATTTCGAGATTCTATCCACCTCACACCAG
TGCTAACAAGCTCCATTTTGAATCAACTAACAGGGCGCAATCTTTTCTTCAAATGTGAACTCTTCCAGAAAAACAG
GATCTTTTAAAGATTGCTGGTGCTCTCAATGCCGTCAGAAGCTTGGTTCCTGATGCTTTAGAAAAGGAAGCCGAAAG
CTGTTGTTACTCACAGCAGTGGAAACCATGGCCAGGCTCTCACCTATGCTGCCAAATTGGAAGGAATTCCTGCTT
ATATTGTGGTGCCCCAGACAGCTCCAGACTGTAAAAAAGCTTGAATACAAGCCTACGGAGCGTCAATTGTATACT
GTGAACCTAGTGATGAGTCCAGAGAAAAATGTTGCAAAAAGAGTTACAGAAGAAACAGAAGGCATCATGGTACATC
CCAACCAGGAGCCTGCAGTGATAGCTGGACAAGGGACAATTGCCCTGGAAGTGCTGAACCAGGTTCTTTTGGTGG
ATGCACTGGTGCTACCTGTAGGTGGAGGGAATGCTTGCTGGAATAGCAATTACAGTTAAGGCTCTGAAACCTA
GTGTGAAGGTATATGCTGCTGAACCTCAAATGCAGATGACTGCTACCAGTCCAAGCTGAAGGGGAACTGATGC
CCAATCTTTATCCTCCAGAAACCATAGCAGATGGTGTCAAATCCAGCATTGGCTTGAACACCTGGCCTATTATCA
GGGACCTTGTGGATGATATCTTCACTGTACAGAGGATGAAATTAAGTGTGCAACCCAGCTGGTGTGGGAGAGGA
TGAAACTACTCATTGAACCTACAGCTGGTGTGGAGTGGCTGCTGTGCTGTCTCAACATTTCAAACCTGTTTCCC
CAGAAGTAAAGAACATTTGTATTGTGCTCAGTGGTGGAATGTAGACTTAACCTCCTCCATAACTTGGGTGAAGC
AGGCTGAAAGGCCAGCTTCTTATCAGTCTGTTTCTGTT**TAA**TTTACAGAAAAGGAAATGGTGGGAATTCAGTGTCT
TTTAGATACTGAAGACATTTTGTTCCTAGTATTGTCAACTCTTAGTTATCAGATTCTTAATGGAGAGTGGCTAT
TTCATTAAGATTTAATAGTTTTTTTTTGGACTAAGTAGTGGAACAACTTTTATACTTAACTGAGACATTTTGTCAA
GGCTAAAAAAGTCTTGCAAAATGGGGCAGTGGACTGACAGGCTGACATAGAAAATAAACTTTGCCCAATCACA
ACTTGTGCCTCCCATCCCTGGAGTACTGACTGGCACCGGTAAGACAGAATCTCTCTGAATCCATTACTCCATGCC
CCCTTGAGGCACTGTTGAAGAAATCTCACTTTTTCAGCCAGGGTACTGGTTCTGGTACATATGGATCATAAGTCCA
TTTGGGGAAAGACTCGTTTATACAGGTTTCATCAGTACTGTGTCTTGAGATTTTAGCTTCCCATCAAAGCTGCATTT
CATGTGGCCATGGGTACCTAGAAAGACATCAGAACAGTCCGGTCAAATTAAGAGTAGAAAATTTTAAAGCAATGA
CTTCCAACCCAACAGTCATTTAGCAACACTGCAGAAATGCAGACATGGTCTCAAATCCCGTGTTCCTTACCTAA
AGGTTTCCTTGATATGTCTCTCCGGCCCCACTTCGTTCTCAGTTCCACTGGTTTAAACCACAGCACATCCTCTTA
GAATCAAAACACATTAAAGACCAAGATGAAACATTTACCCACAAAATGTAAACCCAACCTTTATACCACAAAGGCA
ATCAGATCCCATCCTCCTCCTTCATACCCACCTCTGTTGAAGAACATGTAACGTACTACTGCCATCTTAGTAAAA
ATTTTGAAAGGATGACCACTCAGAACAACCTCTCTTGATGACCATTCTGTCTGGATCTACTGACATAAGATGGCCT
GTAGCAATGAGGCTGTGCATTCTTAAGGACAAAAGCAAAGAAGCTATTTAGGAATTTACAGGCCAAAGTCTTCA
TTTATTGCCCAGTCCATTTAAAGACCCATGCAAGAGCCTGGTTTGTTCATCCCTGCCCTAGCCCAATCTGAGGCTA
AGATTGGTAAACTGTAAGCCCACACTTAACCTTGTCAATAGGTTCTTGAAAACCTTGTAATTCAAGAGAAATGATG
TATAACAAAACCATACTTTTTCTCATCAGTTGTTACAAGGAAAGGATGTTGAACAAAAGGCAGTTATTTGAGGAC
TGGCTATACACTGTTTCACGTAAAAGTTGGAGTTTTTCATTGTTCTATTAACAATGTTAAATGAAGACTTACTGTA
TTTTGAAAACCATCATTACCTTCTCCATACCATTTGGCTCCCAATTTAAATAAACAAGAGAAAACGGTGTTCAT
CT

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FIGURE 1206

MCAQYCISFADVEKAHINIRDSIHLTPVLTSSILNQLTGRNLFFKCELFQKTGSFKIRGALNAVRSLVPDALERK
PKAVVTHSSGNHGQALTYAAKLEGIPAYIVVPQTAPDCKKLAIQAYGASIVYCEP SDESRENVAKRVTEETEGIM
VHPNQEPAVIAGQGTIALEVLNQVPLVDALVVPVGGGMLAGIAITVKALKPSVKVYAAEPSNADDCYQSKLK GK
LMPNLYPPETIADGVKSSIGLNTWPIIRD LVDDIFTVTEDEIKCATQLVWERMKLLIEPTAGVGVAAVLSQHFQT
VSPEVKNICIVLSGGNVDLTSSITWVKQAERPASYQSVSV

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FIGURE 1207

CCCCGCGTCATACGGTTGCCGGCATGGCACATTACAACCTTCAAGAAAATTACGGTGGTGCCGTCCGCCAAGGACT
TCATAGACCTCACGTTGTGCGAAGACTCAACGAAAGACTCCAACCGTTATTTCATAAACATTACCAAATACATCGCA
TTAGACATTTTTTACATGAGAAAAGTCAAATTTACTCAACAGAATTACCATGATAGACTTTCACAAATTTCTAACAG
ATTTCCCCAAATTGGATGATATTCATCCGTTCTATGCTGATTIGATGAATATTCTCTACGACAAGGATCATTACA
AGTTGGCTCTGGGGCAAATAAATATTGCCAAAATTTAGTGGACAATGTTGCTAAAGATTATGTGCGACTGATGA
AGTATGGCGACTCTCTCTACCGCTGCAAACAGCTGAAGCGTGCGGCCCTGGGACGGATGTGCACAGTGATCAAGA
GGCAGAAGCAGAGTTTGGAGTATTTGGAGCAAGTGCCTCAGCATTTATCCCGTTTGCCAACCATTGATCCGAATA
CCAGGACCCTGCTTTTGTGTGGGTACCCAAATGTTGGGAAGTCCAGCTTCATCAACAAGGTGACGAGAGCAGACG
TGGATGTCCAGCCCTATGCGTTCACAACCAAGTCTCTGTTTGTGGGCACATGGATTATAAGTATCTACGTTGGC
AGGTTGTAGACACTCCTGGGATCCTGGACCACCCTCTGGAGGATAGGAACACCATCGAGATGCAGGCCATCACTG
CCCTGGCCACCTCCGTGCTGCGGTCTGTATGTGATGGATTTGTCTGAGCAGTGTTGGGCATGGGCTGAGGGAGC
AGCTAGAACTCTTCCAGAACATCAGACCTCTCTTCATCAACAAGCCTCTCATAGTTGTAGCCAACAAATGTGATG
TGAAGAGAATAGCTGAACTTTCTGAAGATGATCAGAAAATATTTACAGATTTGCAGTCTGAAGGATTCCCTGTAA
TAGAGACCAGCACCTGACTGAGGAAGGTGTTATTAAGTTAAACAGAGGCTTGCGATAGGCTTTTGGCTCATC
GAGTGGAAACCAAAATGAAGGGAAATAAAGTGAATGAGGTGCTGAATAGACTGCACCTGGCTATCCCAACCAGGA
GGGACGATAAGGAGAGGCCCCCTTTCATCCCTGAAGGAGTGGTGGCTCGCAGGAAGAGGATGGAACTGAGGAGT
CCAGGAAGAAGAGGGAACGAGATCTTGAGCTGGAATGGGAGATGATTATATTTTGGATCTTCAGAAGTACTGGG
ATTTAATGAATTTGTCTGAAAAACATGATAAGATACCAGAAATCTGGGAAGGCCATAATATAGCTGATTATATTG
ATCCAGCCATCATGAAGAAAATTGGAAGAATTAGAAAAAGAAGAAGAGCTGAGAACAGCTGCTGGAGAGTATGACA
GTGTATCTGAGAGTGAAGACGAAGAGATGCTGGAATCCGACAGCTGGCAAAGCAAATTCGAGAGAAAAAGAAGT
TGAAAAATTCTGGAGTCCAAAGAAAAGAATACACAGGGACCCAGGATGCCGCGAACTGCTAAGAAGGTTTCAGAGGA
CAGTTTTGGAGAAGGAGATGCGTAGTCTTGGTGTGACATGGACGATAAAGACGATGCCATTACGCAGTCCAGG
CAAGAAGATCCCGGAGCATCACTAGGAAAAGAAAGCGGGAAGACTCTGCTCCCCCGTCTCTGTGGCCCGGAGTG
GGAGTTGCTCTCGAACTCCACGTGACGTTTCTGGTCTTAGGGATGTCAAGATGGTGAAGAAAGCCAAGACTATGA
AGAATGCTCAGAAGAAGATGAATCGGTTGGGGAAGAAAGGGGAGGCGGATAGACACGTGTTTGATATGAAGCCCA
AGCACTTGCTGTCTGGGAAGAGGAAAGCTGGTAAAAAGGACAGGAGATTAGTATCCGTTTGGTTGGCGTGGCTTCG
CTAGAGTGTGCTGTTTATTTCCCTGGTTTGGTACAGTATGGTTTCATGAAATTGGAGCTCTGTACAAACTGAAAA
AGACAAAATAAGTAAAGCACTTGTTGCTTTGCTGAAAACATATGGTTAACCTTATATAGGTGTGGGAAATTTTTGT
CACTGCATAATATTACAAATATTTTGGTAGACAGTGTTCACATTTAATGGAGTATCAGTTGCTTCAGATTTT
CAGAACTGGGAAGATTTACTGGTGTAACTGGGTTGTTTTGATGGAGAAAAACCTTATTTTCTTTTGTAAAGAGCT
GGGAGCAAACACGTTTATGAGTGTGTCGGAATCCCGTGCTTAAATAACGCTCTTAAATTATTTTCTAGTCTTATT
TTACAATGTCTCATTGTAGTCTGTCTTCAACTATTTTATCCAAAATAAACCTCCAGAAGAACTAAAAAAAAAAAA
AAAAAAAAAAAAAA

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FIGURE 1208

MAHYNFKKITVVP
SAKDFIDLTLSKTQ
RKTPTVIHKHYQI
HRIRHFYMRKVKF
TQQNYHDRLSQIL
TDFPKLDDI
HPFYADLMNILYD
KDHVKLALGQINI
AKNLVDNVAKDYV
RLMKYGDSLVRCK
QLKRAALGRMCTV
IKRQKQSLEY
LEQVRQHLSRLPT
IDPNTRITLLLCG
YPNVGKSSFINKV
TRADVDPYAFITK
SLFVGHMDYKYL
RWQVVDTPGI
LDHPLEDRNTIEM
QAITALAHLRAAV
LYVMDLSEQCGH
GLREQLELFQNI
RPLFINKPLIVV
ANKCDVKRIAELS
EDDQKIFTDLQSE
GFPVIETSTLTEE
GVKVKTEACDRLL
AHRVETKMKGK
VNEVLNRLHLAIP
TRRDDKERPP
FPIEGVVARRKRM
ETEESSRKKRERD
LELEMGGDYILD
LQKYWDLNMLSE
KHDKIPEIWE
GHNIADYIDPAI
MKKL
EELEKEEELRTA
AGEYDSVSESEDE
EMLEIRQLAKQI
REKKLKILESKE
KNTQGPRMPRTA
KKVQRTVLEKEM
R
SLGVDMDDKDDA
HYAVQARRSR
SITRKRKREDS
APPSSVARSGSC
SRTPRDVSGLRD
VKMVKKAKTMK
NAQKKMN
RLGKKGEADRH
VFDMPKHL
LSGKRKAGKKDRR

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FIGURE 1209

CGAGCACTAAGTCTCTGAGTTCCGCGAGCGCAGCACCGGAAGCGGGCCGAGCGCGCTCAGCCCGGCGACCCCTGCG
GGCTCCAGACCCCTGCGCCGCTGCGCCCCGGGTTTCGCCGCAACCAAGACCCAGCGAGTGCAGCGGCGGCGCGCTG
AGGAGGTTTCGAAAACATGGCCAAAAGAAATGCCGAGAAGGAAGTACAGATAGGAATTGGGATCAAGAAGATGAA
GCTGAAGAGGTGGGAACATTCTCCATGGCCAGTGAGGAAGTCTTGAAGAATAGAGCCATAAAGAAAGCAAAGCGC
AGAAATGTTGGATTTGAATCTGACACTGGAGGAGCCTTTAAAGGTTTTAAAGGTTTGGTGGTACCTTCTGGAGGA
GGACGCTTTTCTGGATTTGGTAGTGGCGCTGGAGGGAAGCCTTTGGAAGGACTGTCGAATGGAAACAACATAACC
AGTGCCCCCTCCCTTCGCCAGTGCAAAGGCAGCGGCAGATCCCAAGGTAGCCTTTGGTTCTCTTGCTGCAAATGGC
CCTACCACCTTGGTTGATAAAGTTTCAAATCCCAAACTAATGGGGACAGTCAGCAGCCCTCTCCTCTGSCCTT
GCTTCCAGTAAAGCTTGTGTCGGAAATGCCTATCACAAGCAGTTGGCCGCTTGAAGTCTCCGTGCGGGATTGG
ATAGTGAAGCACGTGAATACAAACCCCTCTGTGATCTGACACCTATCTTTAAAGACTATGAGAAATATTTAGCA
AACATTGAACAGCAACACGGGAACAGTGGCAGGAATTCTGAAAGTGAATCTAACAAAGTGGCAGCTGAAACACAG
TCTCCTTCCCTTTTTGGCTCAACAAAATTACAGCAAGAGTCAAGCTTTTTGTTTCATGGCAACAAAAGTGAAGAT
ACACCTGACAAGAAGATGGAGGTGGCATCTGAAAAGAAAACGGACCCATCATCACTAGGAGCGACAAGTGCCTCA
TTTAATTTTCGGCAAGAAAGTTGATAGCTCTGTTTTGGGCTCATTAAAGCTCTGTCCCCCTGACTGGATTTTCTTTC
TCCCCTGGAAACTCCAGTTTATTTGGCAAAGATACTACCCAGAGTAAACCAGTCTCTTCACCATTTCCTCACTAAA
CCATTGGAGGGCCAAGCAGAAGGTGACAGTGGTGAATGCAAAGGTGGAGATGAAGAAGAGAATGATGAGCCACCC
AAAGTAGTAGTTACCGAAGTAAAAGAAGAAGATGCTTTTTACTCCAAAAGTGTAAGTGTTTTACAAGAAGGAC
AATGAGTTTAAAGAGAAAAGGCATAGGTACTCTGCATTTAAACCTACAGCAAATCAGAAGACACAGCTTTTGGTG
CGGGCAGACACCAATTTAGGCAACATATTGCTGAACGTTCTGATTCCACCCAATATGCCATGTACGCGAACAGGG
AAGAATAACGTTCTTATCGTCTGTGTTCCAAATCCACCAATTGACGAGAAGTATGCCACCATGCCAGTCACCATG
TTGATTTCGGGTAAAAAACCAGCGAGGATGCAGACGAGTTGCACAAAATTTTACTGGAGAAAAAGGATGCCTGAACA
CGCAAAGTCGGCTGCAGAATTATTGCCAAGTTGCTGCTGCTTCCACCGCCCCCTTAAAGTTAGTCAGTTTTTCTTC
TCTTCTTTGACATTCTAAGAACTTATAGATAACTTAAACCTTTTGTGAGGAAGATTAATGTGGCCAATAAACCT
TTAAATGTTAAGTGTCAAAAAAAAAAAAAAAAA

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FIGURE 1210

MAKRNAEKELTDRNWDQEDEAEEVGTFSMASEEVLKNRAIKKAKRRNVGFESDTGGAFKGFKGLVVPSSGGGRFSG
FGSGAGGKPLEGLSNGNNITSAPPFASAKAAADPKVAFGSLAANGPTTLVDKVSNPKTNGDSQQPSSSSGLASSKA
CVGNAYHKQLAALNCSVRDWIVKHVNTNPLCDLTPIFKDYEKYLANIEQQHGNSEGRNSESESNKVAAETQSPSLF
GSTKLQQESSFLFHGNKTEDTPDKKMEVASEKKTDPSSLGATSASFNFSGKKVDSSVLGSLSSVPLTGFSFSPGNS
SLFGKDTTQSKPVSSPFPTKPLEGQAEGDSGECKGGDEEENDEPPKVVVTEVKEEDAFYSKKCKLFYKKDNEFKE
KGIGTLHLKPTANQKTQLLVRADTNLGNILLNVLIIPPNMPCRTTGKNNVLIVCVPNPPIDEKNATMPVTMLIRVK
TSEDADELHKILLEKKDA

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FIGURE 1211

GTGTGCTGGTTCAAGGTGCAACATACAGAATATTGAATTAAGAAAAGAGGGAACGGGGAAGGGAAGGGAAACCTC
TTGAGGTCCAAAGTTGCAAACAAAAATGGTAAAAGATTTCTCAGCAAGAGGCATTTTTGCAAATACCATGCA
AAACAGGCAGCTGGTGTGCCTTAAGAGAATCCCTATAAATAACAGAAAAGACACTCCAAGCATTCTGTACGTGG
ACTCAGAGCACAGAGAAAAGAACTAAAATGCCTTTTGGCATTTCAGATATTTGGCACTCTTGTGATTACATTT
TTTTACAGTCCATTAAAGAGAATAAACTGACATAATATTAGAGAAAATAAACAGGCTGCTCACACAACAGACTGCA
AGGGGAAGTTAGAAAAAGCTCAAGCATTTTTTTCTTTGTTTTTCGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTG
TGTGTGTGTGTTTTCTGACATAAAAAATGTGTCCATTTGCATTAACTTGGGCAGATAGCTTGCAGCAACAAAGA
AACACACGCTTTACAACATTTTTAAAATAAAATCTTTTCTATGTATCATTCCTTAGAAAAGTTCTCTTCTTGTT
TTAAACACATTCTTGATAACTTCTAAAGATGACCAAAATAAAACAGAATATCTACAGAGATCATTTTTCTGAATTT
TTTGTACATCCAAGGATAACAACATAAAAAAAATAAACTGGACAGCATTTTACATCCAAGTGCACAGAACCATT
TTTGCAAGATTAAATAATGTAAACATTGGGAACAGCCAAATCAGCGAAGAATGCCAACACCTCAAAACACCTGGT
GTTGCCGCTTCATTAAGTGGTTCAAAATCCAGATCTATAATTGCGCAATATTCACCGTATATAAAAAGAAATGGA
TATTAATTTTGACAAATAGCTGCAACTGAGACTTCTTTTTATTTCTTTATATGTGTATATAGTGAATTTTTATTA
TTTTTAAAATTTTATTTATTTTTTTATTTTTATTTTTTGAGAGGAGCCCAGAGCCTTCTCCTCCTCCTCCTCCTC
CTCTCGCCTCATCTGTCTCCCGGCTGATACCAGATACAGGTTGTTGATTTATCGTGGGTAGCAAGCTAGTAAT
AAATTTCAAAGTGCTTTCTCTTTTCATGCTTTTTGCCAATAACTGTTACCGCGTTCTTATTCTCTCCCTTAAC
CATGTCTTTGGGGAGTTAGACACCAGGAGGTGCCTTGTCGGTCATATTTTCAGCACGTCATCAATCCTATCA
CTTCAATAACAACCCGCTTGCTCCGGCCGATCTGGCCCAGCTTGG

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FIGURE 1212

MKRESLKFKITSLLPMTKSTTCIWYQAGRQMRREEEEEEEKALGSSAKIKIKK

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FIGURE 1213

GGCACGAGGGGGCGGCTGGGACCGGCTGGGGTAGCTGCGCAGCAGGTGGGTTCGGTCCCGGGGATGCAGCGCGGG
GGTCAGAGAGCGACCCCAACAGGGTAGACGGTGAGGACGCCTCAGTGGGCAGCGTTAGGGAAAGGGGCCAGGGTG
TTCCCGGGGTGGGGTTCGAGCCCCGCTGTGCGTCCAGGAGGCCGAGGGTCTGGCATCCCTTCGCGTGGAGTGC
GGGGCAGGGGCCGGGTCCCCCGGAGGTGGCTGAGATCCAGATCGGTGAGGGGCCCTGCAGGCAGGTCTGTGGGT
TCTGGCACCACCTGAGCCCACTGGGCATCTGGTCATCCCTGGCACCTCTCCTTTGGAGCCACCTTGTCCCTGGCT
AGACAGTCACATTTTCCAGTGCCGTTTTGGAAAGATGTTGCCTTTGGAGAAGGCGTTTGCCTCCCCCAGGAGCTC
CCCAGCCCCGCCGATCTGCCACGCCGGGTGTCAGCAGCCGGAGTCCAGCAGGAAGAACCCGAGACCATCCCTGA
GAGGACCCCTGCTGACCTGGAGTTCTCCCGCTGCGTTTTCCGGGAATTTGTCTACCAGGAGGCTGCCGGGCCCCA
CCAGACCCCTGGCCCGGCTGCATGAGCTGTGCCGCCAGTGGCTGATGCCTGAGGCGCGCTCCAAGGAGCAGATGCT
GGAGCTGCTGGTGCTGGAGCAGTTCTGGGCATCCTGCCTGATAAGGTCCGGCCCTGGGTGGTGGCACAGTACCC
TGAGAGCTGCAAGAAGGCAGCCTCCCTGGTGGAGGGCCTCGCTGATGTCTGGAAGAGCCAGGGATGCTGCTGGG
CTCCCTGCGGGCTCATCCTCAATTCTTAGCGATGGAGTGTACGAGAGGCACATGGACCCTCTGCTGCTACCAGG
CGAGCTCGCGAGCCCCAGCCAGGCCCTTGAGCTGGGGAGATCCCGGCACCTTCTGAGACACCTGGCTTTCTCC
GGACCCCTGTTTCTGGAACAGAGGAGGGTCAAGAGAAGCAAAGACCGAAGAGGACGGCCCTGCCAACACCGAGCA
GAAGCTGAAGTCCTTTCCAGAGGACCTCAGCACCTGGGGGAGTGGGGCCACCTGGACCCTGCCGAGGAGAACCT
GAAGAGCTACCGGAAGCTGCTCCTGTGGGGGTATCAGCTTTCCAGCCTGACGCTGCCTCCAGGCTGGACACTGA
GGAATCCGGTTGGTGGAAGAGATCCACAAGGAAGCAGCCTCCCAAGAGCGGGAGGCGGCAGGAGAGCGCTGG
GTGCGCTGCGAGGAGGCCGCCCGCGGGGGTGTGCTGCTGAGCTGCCTACGGAGGCGCCCCCTGGGGACGCCCT
TGCCGATCCCCCGTCCGGCACCACTGAGGAGGAGGAAGAGCAGCCTGGGAAGGCCCGGACCCGAGGACCCCCA
GGACGCGGAGTCCGACTCTGCCACCGGATCGCAGAGGCAGTCCGTCATCCAGCAGCCTGCCCGGACAGGGGCAC
GGCGAAACTGGGAACCAAGAGGCCGCACCCCGAGGATGGGGACGAGCAGAGCCTCGAGGGCGTCTCTAGCTCCGG
CGACAGCGCAGGGCTGGAGGCCGGGCAGGGCCCTGGGGCTGACGAGCCGGGCTTGTCCCGCGGAAGCCCTATGC
CTGCGGCGAGTGCAGGGGAGGCCCTTCGCGTGGCTCTCGCACCTGATGGAGCACCACAGCAGCCATGGCGGCCGGA
GCGCTACGCTGTGAGGGCTGCTGGAAGACCTTCCACTTCAGCCTGGCCCTAGCCGAGCACCAGAAGACCCACGA
GAAGGAGAAAAGCTACGCGCTGGGGGGCGCCGGGGCCCCCAACCGTCCACCCGCGAAGCCAGGCGGGGCTAG
GGCGGGCGGTCCCCCAGAGAGCGTGGAGGGCGAGGCTCCCCCGCACCCCGAGAGGCGCAGAGGTGAGCCGCTGT
GCTGTCCCGTTCCGGAGGGGCCGCTTTGCCGGCCGTGAATCCAGACGAGGCATTGGGCCTTTCCACGCCCCCTGG
GTGGCGGCTTCCCTGTGGTGTGTTGTGGACGTCTCTGCCTGTGCCCTGAATCCGCTCCTGAGGCTAAGCGCTCCCA
ACGAGAAGGGTCCACGGGAAGCCCTCACCTCTGTAAACACACCCCTGGGCCAGCGCTCGCATCCGAGGGGAGCCGC
CGGATGTGGAAGAAGACTCGGCTTTCTGCAGCCATTTAGTGCCGCCCATGCTAGGTTATTTGACATTGTGCAG
TGTAAGATTGCCTTAAAGTGCGTGATCTGCCAGTGCTTTCTTCAAGTCACCCCTGCCCCGATTCTCTGTTTGC
GCTCCCCAGGGTTGCTCAAGTGGAATTTTGTGAGCTGTTTAGCCTTTTCGTACTTGGCGTGATGTCAACTTCAC
TTCTAATCTGCAAAAGCAGAAGCTGTTTCTAGTTTACCTCGCGTGTGTTTACCTATATGGAGTAGCTCGCAGAG
ATCACAGAAATGCTTGCAGCCTAAGGCAGGGTTTTTCAGACCGTGGGTCCAGCCCATTAGTAAATGGGAAATC
AATTAGCAAGTGGTCACCAGCATTACACAGCAATGAAGCAGAATAAAGTAGGCCAGAATGCATCATGTAGTAAAG
GCAAACTACTGTTTTGTGAACTTTTACCCATACATCTAAATGTGAGAACTGGTTGCAATGTAAGACATTTCTTG
CTGGGAAGTTGTGAGCAAAATAAGTTGAAAACACTAATAAAGATCTGTCTGTCTGAGCAAAGGAGACTAACTCC
TTGGGCTACATAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1214

MLPLEKAFASPRSSPAPDLP TPGSAAGVQQEEPETIPERTPADLEFSRLRFREFVYQEAAGPHQTLARLHELCR
QWLMPEARSKEQMLELLVLEQFLGILPDKVRPWVVAQYPESCKKAASLVEGLADVLEEPGMLLGSPAGSSSILSD
GVYERHMDP LLLPGELASPSQALGAGEIPAPSETPWLS PDPLFLEQRRVREAKTEEDGPANTEQKLKSFEDPQH
LGEWGHLDPAEENLKSYRKLLWGYQLSQPDAASRLDTEELRLVERDPQGSSLP EGGRRQESAGCACEEAPAGV
LPELPTEAPPGDALADPPSGTTEEEEEEQPGKAPDPQDPQDAESDSATGSQRQSVIQQPAPDRGTAKLGTKRPHPE
DGDEQSLEGVSSSGDSAGLEAGQGPGADEPGLSRGKPYACGECGEAFWL SHLMEHHSSHGGRKRYACQGCWKTF
HFSLALAEHQKTHEKEKSYALGGARGPQPSTREAQAGARAGGPPE SVEGEAPPAPPEAQR

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FIGURE 1215

AAAAC TCTTCTCAGACCCGGGAGCGTCCGGGACGCGGAGCCCGGAGCTGGGGCGACGAGGCGATTGCGGGGGCCCT
GGGCTAGCTGCTGGCTACCAATATTCTACTTTCTGTCTCTATGTATGTGACTACCCTGGTTACCTCATATAATCT
CCCTGGAAAAGGAGACATGAATGTCTGCAATGATACTTCCTGACAAGAAGTTGATACAAGAAAAGGAAAGGAGAT
TAACAGCTAGTGAGCAGAATTTGGAACAGCAGGATTTCTGATTTTTTTGCTTCCAAGTGCACACTTCCGTTTCCCA
CTTTTAAATCAGAGATACCTACACTCAAACCCAGACAAGGCAAAGGATACCTTTCTTGTATATTTTTGAGAT
CGAAGAAACGACAATGTCAGGAAACAGAACCAGAAGGATTCATCAGGATTCATTTTTGATTGTCAGTCCAATAC
CGTACTGGCCAGGGAGGAGCTTTTGAGAACATGAAAGAGAAGATAAATGCGGTACGTGCAATAGTTCCTAATAA
GAGCAACAATGAAATTATCCTGGTTTTGTCAGCACTTTGATAACTGTGTGGACAAAACAGTACAAGCATTTCATGGA
AGGTAGTGCCAGTGAAGTACTCAAAGAATGGACAGTAACAGGCAAGAAAAAGAACAAAAAGAAGAAAAACAAACC
GAAACCTGCCGAGAACCAAGTAACGGCATCCCAGATTCCAGTAAATCAGTTTCCATTCAAGAGGAACAGTCTGC
GCCTTCCTCAGAGAAAGGTGGTATGAATGGCTACCATGTCAATGGTGCCATCAATGACACTGAGTCTGTGGACTC
ACTCAGTGAAGGTTTGAGACACTTTCAATAGATGCCAGAGAATTGGAGGATCCCGAGTCTGCCATGCTAGATAC
GCTGGACAGAACAGGATCCATGCTGCAGAAATGGTGTCTCTGATTTTTGAGACCAAGTCTTTGACTATGCACTCTAT
TCACAATTCTCAACAACCCAGGAATGCTGCCAAATCTCTCTCAAGACCTACCACAGAAACTCAGTTTTCAAATAT
GGGGATGGAAGATGTTCCCTCGCCACCAGTAAAAAGCTAAGTTCCAATATTGAAAAATCTGTAAAAGACCTCCA
GCGCTGCACAGTGTCTCTTGACGGTATCGAGTTGTAGTTAAAGAAGAGATGGATGCCTCCATTAAAGAAAATGAA
ACAAGCCTTTGCTGAATTGGAGAGCTGTTAATGGATCGAGAAGTGGCGTTGCTTGCTGAAATGGACAAAGTGAA
AGCTGAAGCAATGGAATTTTGGCTCAGCCGACAAAAGAAGGCTGAACCTTCTAAAGAAGATGACTCATGTGGCTGT
TCAAATGTCAGAGCAGCAATTGGTTGAGCTCAGAGCTGATATCAAGCACTTTGTTAGTGAACGTAAATATGATGA
GGATCTGGGACGAGTAGCCCGTTACCTGTGATGTAGAGACCCTAAAGAACAGCATTGATTTCATTTGGACAAGT
GTCTCATCCAAAGAACAGCTATTTCGACCAGATCCCGATGTAGCTCAGTTACATCTGTGTCTTTGAGTAGCCCAAG
TGATGCCTCTGCTGCTTCTCTTCCACCTGTGCCTCTCTCTCCAGCCTTACAAGTGCTAACAAAGAAAACTTTGC
ACCGGGAGAGACTCCTGCAGCCATAGCAAACCTCCAGTGGCCAGCCCTACCAGCCACTTCGGGAGGTATTGCCAGG
GAACAGACGAGGAGGACAGGGCTATAGGCCACAAGGCCAAAAGTCCAATGACCCCATGAACCAAGGGCGGCATGA
CAGTATGGGTCGTTACAGAAACAGCTCGTGGTATTCTCTGTTCCAGGTATCAGAGTGCTCCATCTCAGGCACC
AGGAAACACCATTTGAAAGAGGCCAGACTCACTCTGCAGGGACCAATGGAAGTACAGTCAAGTGGAGCCAGCCC
TCCCACGCCTTCATTCAAAAAGGGGCTCCCCAGCGCAAACCCAGGACCTCTCAGACTGAAGCCGTGAACCTCTTG
AGAGAAAATCCAGTTGGCCTCTCTCCTCTATCCACACAATTCAACTTGATAACTGGACTTTAGGAACTTACAGT
TAGATGTAATAACAAAAAGAAGTTTATGCGTATCACTTTTTGTGCCATTCTAAGTATTTTTGGTTCTTGTCTCCT
TATTTCTCTTTACCATTTTTGGAGGGGAAGCTATTTTTTTTCTTGATCTTTCCAGTGATATGGATTGAATCT
GGTTGGTCATTTCCACCAGGAATCAGAGGCAGCTGTTACCAGGTTTCGGCCTTCCAGTTGATCCCTCCACTGTCC
AGGCTGTCTCAGGAGGAGGTGAATCAGAGCTAGTCTGTACCTTTCCAATCTAAGCCGAAGCCACAGGTGCCTGA
CAGGTTCCCTTCTAACAACATTTGACCAAGAGAGGCAATCAGGGGGTGTATACTGCACTGGATTGCCAGAGA
AGGGAAAAATTAATTAGTGAAGAGGAAAGAACTAGGAAACATTTGAGAACCTGCCTCTATCCCAGAACGTGCT
GGAGATTTGACACTCAAATCAGTGTTTAGTCTTCTGCTTGGCACCATAGCTTAACCTGCAGTTTCTTCAAATGC
CCAATGCCCTTGTTCCTATTACCTTAGATTGCAAACAGTCTAGGGAAAGTCTATGAGAAAGTAGCATTTAATTAA
AGTTTAAAAAAGGTTGGGCGTTGTGGCTCATGCCTGTAAATCCAGCACTTTGGGAGGCTGAGGCGGGTGG
ATCACTAGGTCAGGAGTTCAAGACCAGCTGGCCAACATGGTGAAACCTGTCTGTACTAAAAATACAAAAGTTA
GCTGAGCATGGTGGCGTGTGCCTGTAATCTCAGCTACTCAGGAGGCTGAGGCAGGAGAAATCGCTTGAACCCAGGA
GGCGGAGGCTGCAGTGAGCTGAGATTGTGCCACTGCACTCCAGCCTGGGAGACAGAGCAAGACTCAGTCTC

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FIGURE 1216

MSRKQNQKDSSGFIFDLQSNVLAQGGAFENMKEKINAVRAIVPNKSNNEIILVLQHFDNCVDKTVQAFMEGSAS
EVLKEWTVTGKKKNKKKKKNPKPAAEPSNGIPDSSKSVSIQEEQSAPSSEKGGMNGYHVNGAINDTESVDSLSEG
LETLSIDARELEDPEAMLDLDRGTGSMQLQNGVSDFETKSLTMHSIHNSQQPRNAAKSLSRPTTETQFSNMGMED
VPLATSKKLSSNIEKSVKDLQRCTVSLARYRVVVKEEMDASIKKMKQAFAELESCLMDREVALLAEMDKVKAEM
EILLRQKKAELLKKMTHVAVQMSEQQVELRADIKHFVSEKRYDEDLGRVARFTCDVETLKKSIDSFGQVSHPK
NSYSTRSRCSSVTSVSLSSPSDASAASSSTCASPPSLTSANKKNFAPGETPAAIANSSGQPYQPLREVLPGNRRG
GQGYRPQGQKSNDFPMNQGRHDSMGRYRNSSWYSSGSRYQSAPSQAPGNTIERGQTHSAGTNGTRVSMESPPTPS
FKKGLPQRKPRTSQTEAVNS

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FIGURE 1217

GGGCAAACCCCTTTGAAAAATATTCTAAATGAAAATGACATAGTATTTCATAGTGGAAGTGCCTTTAGAAAAGG
AAGAAACAAGTCATATTGAAGAACTTCAATCTGAAGAACTGCCATATCTGATTTCTCTACTGGCGAAAATGTTG
GACCACTTGCTTTACCAGTTGGGAAGGCAAGGCAGTTAATTGGACTTTACACCAATGGCTCACAATCCTAATATGA
CCCATTTGAAGATTAACTGCTGTTACTGCCCTTCCCCCCTTTGGGTAAGATGTGACAGTTCAGATCCTGAAG
GTACTTGTTGGCTAGGAGCTGAGCTTATCACAACAAACAACAGCATTACAGGAATTGTCTTATATGTGGTCAGTT
GTAAAGCTGATAAAAAATTATTCTGTAAATCTTGAAAACCTAAAAAATTTACACAAGAAAAGACATCACTTGTCTA
CTGTAACATCCAAAGGCTTTGCCAGTATGAGCTCTTTAAGTCCTCTGCCTTGGATGATACAATCACAGCATCAC
AAACTGCGATCGCTTTGGATATTTCTGGAGTCTGTGGATGAGATTCTTCAAATCCCTCCACTCTCTTCAACTG
CAATCTGAATATTAAAGTGGAAATCAGGAGAGCCCAGAGGTCCTTTGAATCATCTCTACAGAGAAGTGAATTTCT
TCTTGTTTTGGCTGATGGTTTGAGGACTGGTGTCACTGAATGGCTCGAGCCCCCTGGAAGCAAAATCTGCTGTTGA
ACTTGTTTCAGGAATTTCTGAATGACTTAAATAAGCTGGATGGATTTGGTGATTCTACAAAAAAGACACTGAGGT
TGAGACCTTGAAGCATGACACTGCTGCAGTCGATCGTTCCGTCAAGCGTCTTTTCAAAGTTCGGAGTGATCTTGA
TTTTGCTGAGCAACTGTGGTGCAAAATGAGCAGTAGTGTGATTTTCATACCAAGACTAGGTGAAGTGTTTCACATT
GATCATCCAGAGTCTACAACGTGGTGATATACAGCCATGGCTCCATAGTGGAAGTAACAGTTTACTAAGTAAGCT
CATTTCATCAGTCTTATCATGGAACCATGGACACAGTTTCTCTCAGTGGGACTATTCCAGTTCAAATGCTTTTGA
AATTGGTTTGGACAACTAAAGAAAGATTATATCAGTTTTTTTCATAGGTCAGGAAGTTCATCTTTGAATCATT
GGAATACTTCATTGCTCCATCAGTAGATATACAAGAACAGGTTTATCGTGTCCAAAACTCCACCATATTCTAGA
AATATTAGTCAGTTGCATGCCTTTTCATTAAATCTCAACATGAACTCCTCTTTTCTTTAACACAGATCTGCATAAA
GTATTACAAACAAAATCCTCTTGATGAGCAACACATTTTTTCAGCTGCCAGTCAGACCAACTGCTGTAAAGAACTT
ATATCAAAGTGAGAAGCCACAGAAATGGAGAGTGGAAATATATAGTGGTCAAAAGAAGATTAAAGACAGTTTGGCA
ACTGAGTGACAGCTCACCCATAGGCCATCTGAATTTTCACAAACCTGATTTTTCGGAATTAACACTAAGCGGTAG
CCTGGAAGAAAGGATATTCTTTACTAACATGGTTACCTGCAGCCAGGTGCATTTCAAGTGAAGTGTGCTGATGAA
GTCCTCTATAAGCACAAAGCC

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FIGURE 1218

MAHNPNMTHLKINLPVTALPPLWVRCDSSDPEGTCWLGAELITTNNSITGIVLYVVSCKADKNYSVNLLENLKNLH
KKRHHLSTVTISKGFAQYELFKSSALDDTITASQTAIALDISWSPVDEILQIPPLSSTAI

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FIGURE 1219

CAGGGTCAGCCATGTCATCTGAGCCTCCCCACCACCACAGCCCCCACCATCAAGCTTCAGTCGGGCTGCTGG
ACACCCCTCGGAGCCGTGAGCGCTCACCATCCCCTCTGCGGGGCAACGTGGTCCCAAGCCCACTGCCACTCGCC
GGACGAGGACCTTCTCGGCGACGGTGCGGGCTTCACAGGTCCCCGTCTACAAAGGAGTCTGCAAATGCTTCTGCC
GGTCCAAGGGCCATGGCTTCAATACCCAGCTGATGGCGGCCCCGACATCTTCCTGCACATCTCTGATGTGGAAG
GGGAGTATGTCCAGTGGAAGGCGACGAGGTCACCTATAAAATGTGCTCCATCCCACCCAAGAATGAGAAGCTGC
AGGCCGTGGAGGTCGTCATCACTCACCTGGCACCAGGCACCAAGCATGAGACCTGGTCTGGACATGTCATCAGCT
CCTTAGGAGATGGTGGAAGCACCCCTTGTCTGTGCTTGAGGAGACTTTGCGGGGAGGAGGCAGCAGACACTGGAG
ATGACATTCTTCCACACGAGACGGGGCTTCAGCCGGGGATGGTCCCTCTCAAGTATCTCCTGGAGGAAGGGGTAT
GGGGGGCAGGTGTGGGGTGTGGGGTGTTCCTGGCCATCAGCACAGCCTATGACCATTGCAACAACCTCTCACCAT
CTGAAGAGCATTAAAAGCATTTAAAAAGGAAAAAAAAAAAAAAAAAAAA

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FIGURE 1220

MSSEPPPPPQPPTHQASVGLLDTPRSRERSPSPLRGNVVPSPLPTRRTRTF SATVRASQVPVYKGVCKCFCRSKG
HGFITPADGGPDIFLHISDVEGEYVPVEGDEVITYKMCSIPPKNEKLQAVEVVITHLAPGTKHETWSGHVISS

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FIGURE 1221

TTGATGCTCTAAATGCAGAAATTAATCGAGACTTCAATGACTGATATGTCAATTCTTAGTTTCTTTGAACATTTTCC
ATATTTCTCCTGTGAAGTTGCATTTGAGTTTGTCTTTGGGTTCCGGAGGTGAAGAATCAGACAAAGAAAAACAGG
AAATGTTTGCAGTTCATTCTGTCAACTTGCTGTTGAAGAGCATAGGTGCTACTCTGACTGATGTGGATGACCTTA
TATTCAAACTTGCTTATTATGAAATTCGATATCAGTTCTACAAGAGAGATCAGCTTATATGGAGTGTGTAGGCG
ATTACAGTGAACAGTTCCTTGAAACAGATGTATGTCCTTGTATTGGGGTTAGATGTACTTGGAAACCCATTTGGAT
TAATTAGAGGTCTGTCTGAAGGAGTTGAAGCTTTATTCTATGAACCCCTTCAGGGGTGCTGTTCAAGGCCCTGAAG
AATTTGCAGAGGGGTTAGTGATTGGAGTGAGAAGCCTCTTTGGACACACAGTAGGTGGTGCAGCAGGAGTTGTAT
CTCGAATCACCGGTTCTGTTGGGAAAAGGTTTGGCAGCAATTACAATGGACAAGGAATATCAGCAAAAAAGAAGAG
AAGAGTTGAGTCGACAGCCCAGAGATTTTGGAGACAGCCTGGCCAGAGGAGGAAAGGGCTTTCTGCGAGGAGTTG
TTGGTGGAGTGACTGGAATAATAACAAAAACCTGTGGAAGGTGCCAAAAAGGAAGGAGCTGCTGGATTCTTTAAAG
GAATTGGAAAAGGGCTTGTTGGGTGCTGTGGCCCGTCCAACCTGGTGGAATCGTAGATATGGCCAGTAGTACCTTCC
AAGGCATTCAGAGGGCAGCAGAAATCAACTGAGGAAGTATCTAGCCTCCGTCCTCCCTCGCCTGATCCATGAAGATG
GCATCATTCGTCTCTTATGACAGACAGGAATCTGAGGGCTCTGACTTACTTGAGAATCATATCAAAAAGTTGGAAG
GAGAGACTTACCGATAACCACTGTGCTATTCTGGAAGCAAGAAGACAATCCTTATGGTTACAAATAGGCGAGTGT
TGTGTATAAAGGAAGTTGAAATCCTGGGCCCTTATGTGTGTAGACTGGCAATGTCCATTTGAAGATTTTGTATTTT
CTCCTAGTGTCTAGTGAAAAATGTGCTAAAAAATTCAGTTAAGGAACAGGGGTCTGTTCCACAAAAAAGACAGTGCCA
ATCAAGGCTGTGTTTCGAAAAAGTTTACCTGAAGGACACCGCCACAGCAGAGAGAGCATGTAATGCCATTGAGGATG
CACAGTCAACGAGACAGCAGCAAAAAATTGATGAAGCAGTCATCAGTGAGACTTCTCAGACCCCAATTGCCATCTT
AAATCACAGACCTCAGGGGCTCCAACAGGGGAGAAAAACAATCACTGGTCTTGTCTATAAGTCACTCTGCTTTATC
TTGCTAAAGACAATTTTTCAAGCAATCCTTTAGTTTTAGTTTTCTGGAATACCTAGTATTGGGTTTTCTAGTTTT
TTCACCTTTTAGTTTTTACTCTAATTTTGTAAACCATGTATATGCTAGCAGTCCACTTCTACGCCACCACCCAAAT
GGGTCAGACCCTTGAAGAAACGTCACCTTCAAACCTCAGAATGAAAATTTTCATTAATATTAATAATTGTGAAGCAAAG
GTCAATAGGCTTATATTTAATTAAAGCCTTACTGAAGAATAAGAAAATGAGCTTAGAATGACTAGTGTCTTTTGAA
AGGTTTTTTTTATTTTTGTTTTTTGGGGTTTTTTTTTTTTTTTTTTTGGAGACCGAGTCTTGCTCTGTGCGCCAGGCT
GGAATGCAGTGGTGCATCTTGGCTCAGTGCAATCTCTGCCTCTCGGGTTCAAGCGGTTCTACTGCCTCAGCCTC
CTGAGTAGCTAGGATTACAGGTGTGTGCCACCACGCCTGGGTAATTTTTTTTTTTTTTTTGTATTTTTTAGTAGAGAT
GAGTTTCACCATGTTGGTCAGTCTAGTCTCGAACTCCTGACCTTGTGATCCGCATGCCCTCAGCCTCCCAAGTGC
TGGGATTACAGGCATGAGCCACCACGGCCCGCCAAAAGGCTTTAACCCATGAACAAATGTTGGATCCTGACATTT
TGTTTAAAGAGTGATTTGTTCAATAATTGAAGTGAAGTAAACATTCTTGGTAAACCAGGTAATTGAATGAAGAAAAG
TCACTAAAGGGAGAAATGACATGTTTTCTATTTTCTTTTCATGAAAACTGTTTTTTCCCCCTAATAAAGCATAT
TTTACTTTGGTGCTTATTTTTTCTCTCTTGCGAGTCTAATAAAAAAATCTGGACAATCAAACCTTAAAAATAGCTACA
CTCTGCCCTCTGTAATGTAGCATTCATAAAAAATTGGAAGTATTTACATCCTCTTTCAAGATGAGCTTATATGAC
ACAATTATTATTGCTGATACATGAAAATACTGCACTTTAAAGTTTCTCAAGACTCTGAAATATGTAATAATTCAAT
ATTTTTATATTCCCAGAAATGTTTTCTTACAGGTTGAAAGTCTTTTAAAGGCATCACAAATTAACATTTACTCCT
AATGCACGCCCTAGAATGTATTTTAAATACTTACTAAGAAGAAATGAAAAATCTTTGGTTGTTTTATATATAAAATAA
GGCATATATAATGACACTGTGTTCTGTGAGGGAGCAGGCCCTGTGAGAATCAATTCAGGACAGTATTTTTTTTTTGG
TCCTTTCTCCATCCTTGATCAGAGATAAACTATTAAAACTTTAAAAAATACTCAAAAAATATGTAAGTTTTTTGGT
TGAACCTTTAGATTTGCTCATAATGTTTAAACATAACAACATTTATTTCAAATCACTGAATTCATGGAGATGTGGA
CACGCTTGGTTTTGCTCTATTTTTGTTTTATGTGTGATAGTGGTCTGTGCATCATCATTCAATGTTTTTAAAGGCCTG
GTCATAAAACTTTAAATTTTACTAGTGTACTTAAATGTATATCTAAAAAGAGAATGCAGTAACTAATGCCCTAA
ATGTTTGATCTCTGTTTGTCTATTACTTTTTCAAAATTAATTTTTTTCTGTAAAGTATAATATATAAAACTTCTTGC
TTAAATTGAATTTCTATATTAGTGGTTAATTGCAGTTTATTAAGGGATCATTATCAGTAATTTTATAGCAACTG
TTCTAGTGTTTTGTGTTTTTAAACAGAAATTAGGAATTTGAGATATCTGATTATATTTTTTATATGAATCACAGC
TGTGACAATGTCCCATATATTTAAGAAATTATATCATACTGATACTATTTGTAACATTTTGATTGATTTAATC
TCCAGGGACAGAAATAATTCATTGGTAAAGTGTAATAATGCGTTTTTTTTAAAAATGCTTTGAGAGGTAATTACTTG
CATATGAGAGAAATAAAACATTTGGCACATTGTTTACAGGTGTGAAAAA

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FIGURE 1222

METSMTDMSILSFFEHFHISPVKLHLSLSLGS GGEE SDKEKQEMFAVHSV NLLK SIGATLTDVDDLIFKLAYYE
IRYQFYKRDQLIWSVVRHYSEQFLKQMYVLVLGLDVLGNPFGLIRGLSEGVEALFYEPFQGAVQGPEEFAEGLVI
GVRSLFGHTVGGAGVVSRTG SVGKGLAAITMDKEYQQKRREELSRQPRDFGDSLARGGKGF LRGVVGGVTGII
TKPVEGAKKEGAAGFFKGIGKGLVGAVARPTGGIVDMASSTFQGIQRAAE STEEVSSLRPPRLIHEDGIIRPYDR
QESEGSDDLLENHIKKLEGETYRYHCAIPGSKKTILMVTNRRVLCIKEVEILGLMCVDWQCPFEDFVFPPSVSENV
LKISVKEQGLFHKKDSANQGCVRKVYLKDTATAERACNAIEDAQSTRQQQKLMKQSSVRLLRPQLPS

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FIGURE 1223A

GCCCTGCTTCCCCTTGACCTGCGCCGGGCGGCC**ATG**GACTTGTACAGCACCCCGGCCGCTGCGCTGGACAGGTT
CGTGGCCAGAAGGCTGCAGCCGCGGAAGGAGTTCGTAGAGAAGGCGGGCGGCTCTGGGCGCCCTGGCCGCTGC
CCTGAGGGAGCGCGGGGGCCGCTCGGTGCTGCTGCCCCGCGGGTGCTGAAAACCTGTCAAGGGAGGCTCCTCGGG
CCGGGGCACAGCTCTCAAGGGTGGCTGTGATTCTGAACTTGTATCTTCTCGACTGCTTCAAGAGCTATGTGGA
CCAGAGGGCCCGCGTGCAGAGATCCTCAGTGAGATGCGGGCATCGCTGGAATCCTGGTGGCAGAACCCAGTCCC
TGGTCTGAGACTCACGTTTCTGAGCAGAGCGTGCCTGGGGCCCTGCAGTTCGCGCTGACATCCGTAGATCTTGA
GGACTGGATGGATGTTAGCCTGGTGCCTGCCTTCAATGTCTGGGTGAGGCCGGCTCCGCGGTCAAACCCAAGCC
ACAAGTCTACTCTACCCCTCCTCAACAGTGGCTGCCAAGGGGGCGAGCATGCGGCCCTGCTTACAGAGCTGCGGAG
GAACTTTGTGAACATTGCCCCAGCCAAGTTGAAGAACCTAATCTTGCTGGTGAAGCACTGGTACCACCAGGTGTG
CCTACAGGGGTTGTGGAAGGAGACGCTGCCCCCGGTCTATGCCCTGGAATTGCTGACCATCTTCGCTGGGAGCA
GGGCTGTAAAGAAGGATGCTTTAGCCTAGGCGAAGGCCTCCGAACCTGCTGGGCGCTGATCCAACAGCATCAGCA
CCTGTGTGTTTTCTGGACTGTCAACTATGGCTTCGAGGACCCCTGCAGTTGGGCAGTTCCTGACGCGGCACGTTAA
GAGACCCAGGCCTGTGATCCTGGACCCAGCTGACCCACATGGGACCTGGGGAATGGGGCAGCCTGGCACTGGGA
TTTGCATGCCCAGGAGGCAGCATCCTGCTATGACCACCCATGCTTTCTGAGGGGGATGGGGGACCCAGTGCAGTC
TTGGAAGGGGGCCGGGCCCTTCCACGTGCTGGATGCTCAGGTTTGGGCCACCCATCCAGCTAGACCCTAACCAGAA
GACCCCTGAAAACAGCAAGAGCCTCAATGCTGTGTACCCAAGAGCAGGGAGCAAACCTCCCTCATGCCCAGCTCC
TGGCCCCACTGCGGAGCCAGCATCGTACCCCTCTGTGCCGGGAATGGCCTTGGACCTGTCTCAGATCCCCACCAA
GGAGCTGGACCGCTTCATCCAGGACCACCTGAAGCCGAGCCCCAGTTCCAGGAGCAGGTGAAAAAGGCCATCGA
CATCATCTTGCGCTGCCTCCATGAGAACTGTGTTTACAAGGCCTCAAGAGTCAGTAAAGGGGGCTCATTGGCCG
GGGCACAGACCTAAGGGATGGCTGTGATGTTGAACATCATCTTCTCAACTGCTTCACGGACTACAAGGACCA
GGGGCCCCGCGCGCAGAGATCCTTGATGAGATGCGAGCGCACGTAGAATCCTGGTGGCAGGACCAGGTGCCAG
CCTGAGCCTTCAGTTTCTGAGCAGAATGTGCCTGAGGCTCTGCAGTTCCAGCTGGTGTCCACAGCCCTGAAGAG
CTGGACGGATGTTAGCCTGCTGCCTGCCTTCGATGCTGTGGGGCAGCTCAGTTCTGGCACCAAACCAAATCCCCA
GGTCTACTCGAGGCTCCTCACCAGTGGCTGCCAGGAGGGCGAGCATAAGGCCTGCTTCGCAGAGCTGCGGAGGAA
CTTCATGAACATTGCCCCGTGCAAGCTGAAGAACCTGATTCTGCTGGTGAAGCACTGGTACCAGCCAGGTGCGGC
TCAGAACAAAGGAAAAGGACCAGCCCTGCCTCTCTGCCCCAGCCTATGCCCTGGAGCTCCTCACCATCTTTGC
CTGGGAGCAGGGCTGCAGGCAGGATTGTTTCAACATGGCCCAAGGCTTCCGGACGGTGTGGGGCTCGTGCAACA
GCATCAGCAGCTCTGTGTCTACTGGACGGTCAACTATAGCACTGAGGACCCAGCCATGAGAATGCACCTTCTTGG
CCAGCTTCGAAAACCCAGACCCCTGGTCTCTGGACCCCGCTGATCCACCTGGAACGTGGGGCCACGGTAGCTGGGA
GCTGTTGGCCAGGAAGCAGCAGCGCTGGGGATGCAGGCCTGCTTTCTGAGTAGAGACGGGACATCTGTGCAGCC
CTGGGATGTGATGCCAGCCCTCCTTTACCAAACCCAGCTGGGGACCTTGACAAGTTTCACTAGTGAATTTCTCCA
GCCAACCCGCCAGTTCTTGGCCAGGTGAACAAGGCCGTTGATACCATCTGTTTCAATTTTGAAGGAAAACCTGCTT
CCGGAATTCTCCCATCAAAGTGATCAAGGTGGTCAAGGGTGGCTCTTCAGCCAAAGGCACAGCTCTGCGAGGCCG
CTCAGATGCCGACCTCGTGGTGTTCCTCAGCTGCTTCAGCCAGTTCACTGAGCAGGGCAACAAGCGGGCCGAGAT
CATCTCCGAGATCCGAGCCAGCTGGAGGCATGTCAACAGGAGCGGCAGTTGAGGTCAAGTTTGAAGTCTCCAA
ATGGGAGAAATCCCCGCGTGTGAGCTTCTCACTGACATCCCAGACGATGCTGGACCAGAGTGTGGACTTTGATGT
GCTGCCAGCCTTTGACGCCCTAGGCCAGCTGGTCTCTGGCTCCAGGCCAGCTCTCAAGTCTACGTCGACCTCAT
CCACAGCTACAGCAATGCGGGCGAGTACTCCACCTGCTTCACAGAGCTACAACGGGACTTCATCATCTCTCGCCC
TACCAAGCTGAAGAGCCTGATCCGGCTGGTGAAGCACTGGTACCAGCAGTGTACCAAGATCTCCAAGGGGAGAGG
CTCCCTACCCCCACAGCACGGGCTGGAACCTCTGACTGTGTATGCCTGGGAGCAGGGCGGGAAGGACTCCAGTT
CAACATGGCTGAGGGCTTCCGCACGGTCTGGAGCTGGTCAACAGTACCGCCAGCTCTGTATCTACTGGACCAT
CAACTACAACGCCAAGGACAAGACTGTTGGAGACTTCTGAAACAGCAGCTTCAGAAGCCCAGGCCTATCATCCT
GGATCCGGCTGACCCGACAGGCAACCTGGGCCACAATGCCCGCTGGGACCTGCTGGCCAAGGAAGCTGCAGCCTG
CACATCTGCCCTGTGCTGCATGGGACGGAATGGCATCCCCATCCAGCCATGGCCAGTGAAGGCTGCTGTGTGAAG
TTGAGAAAATCAGCGTCTTACTGGATGAAGAGAAGATGGACACCAGCCCTCAGCATGAGGAAATTCAGGGTCCC
CTACCAGATGAGAGAGATTGTGTACATGTGTGTGTGAGCACATGTGTGCATGTGTGTGCACACGTGTGCATGTGT
GTGTTTTAGTGAATCTGCTCTCCAGCTCACACACTCCCCTGCCTCCCATGGCTTACACACTAGGATCCAGACTC
CATGGTTTGACACCAGCCTGCGTTTGCAGCTTCTCTGTCACTTCCATGACTCTATCCTCATACCACCCTGCTGC

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FIGURE 1223B

TTCCCACCCAGCTGAGAATGCCCCCTCCTCCCTGACTCCTCTCTGCCCATGCAAATTAGCTCACATCTTTCTCTCC
TGCTGCAATCCATCCCTTCCTCCCATTTGGCCTCTCCTTGCCAAATCTAAATACTTTATATAGGGATGGCAGAGAG
TTCCCATCTCATCTGTGACCCACAGTCATTTGGTACTGGCTACCTGGAGCCTTATCTTCTGAAGGGTTTTAAAGA
ATGGCCAATTAGCTGAGAAGAATTATCTAATCAATTAGTGATGTCTGCCATGGATGCAGTAGAGGAAAGTGGTGG
TACAAGTGCCATGATTGATTAGCAATGTCTGCACTGGATATGAAAAAAGAAGGTGCTTGCAGGTTTACAGTGTA
TATGTGGGCTATTGAAGAGCCCTCTGAGCTCGGTGTCTAGCAGGAGAGCATGCCCATATTGGCTTACTTTGTCTG
CCACAGACACAGACAGAGGGAGTTGGGACATGCATGCTATGGGGACCCTCTTGTGGACACCTAATTGGATGCCT
CTTCATGAGAGGCCTCCTTTTCTTACCTTTTTATGCTGCACTCCTCCCTAGTTTACACATCTTGATGCTGTGGC
TCAGTTTGCTTCTCTGAATTTTTATTGGGTCCCTGTTTTCTCTCTAACATGCTGAGATTCTGCATCCCCACAGC
CTAAACTGAGCCAGTGGCCAAACAACCGTGCTCAGCCTGTTTTCTCTCTGCCCTCTAGAGCAAGGCCACCAGGTC
CATCCAGGAGGCTCTCCTGACCTCAAGTCCAACAACAGTGTCCACACTAGTCAAGGTTAGCCAGAAAAACAGAA
AGCACTCTAGGAATCTTAGGCAGAAAGGGATTTTATCTAAATCACTGGAAAGGCTGGAGGAGCAGAAAGGCAGAGG
CCACCCTGGACTATTGGTTTCAATATTAGACCACTGTAGCCGAATCAGAGGCCAGAGAGCAGCCACTGCTACTG
CTAATGCCACCCTACCCCTGCCATCACTGCCCCACATGGACAAAACCTGGAGTCGAGACCTAGGTTAGATTCTCTG
CAACCACAAAACATCCATCAGGGATGGCCAGCTGCCAGAGCTGCGGGAAGACGGATCCACCTCCCTTTCTTAGCA
GAATCTAAATTACAGCCAGACCTCTGGCTGCAGAGGAGTCTGAGACATGTATGATTGAATGGGTGCCAAGTGCCA
GGGGGCGGAGTCCCCAGCAGATGCATCCTGGCCATCTGTTGCGTGGATGAGGGAGTGGGTCTATCTCAGAGGAAG
GAACAGGAAAACAAAGAAAGGAAGCCACTGAACATCCCTTCTCTGCTCCACAGGAGTGTCTTAGACAGCCTGACTC
TCCACAAAACCACTGTAAAACTTACCTGCTAGGAATGCTAGATTGAATGGGATGGGAAGAGCCTTCCCTCATTAT
TGTCATTCTTGAGAGAGGTGAGCAACCAAGGGAAGCTCCTCTGATTACCTAGAACCTGTTCTCTGCCGTCTTT
GGCTCAGCCTACAGAGACTAGAGTAGGTGAAGGGACAGAGGACAGGGCTTCTAATACCTGTGCCATATTGACAGC
CTCCATCCCTGTCCCCCATCTTGGTGCTGAACCAACGCTAAGGGACCTTCTTAGACTCACCTCATCGATACTGC
CTGGTAATCCAAAGCTAGAACTCTCAGGACCCCCAACTCCACCTCTTGGATTGGCCCTGGCTGCTGCCACACACA
TATCCAAGAGCTCAGGGCCAGTTCTGGTGGGCAGCAGAGACCTGCTCTGCCAAGTTGTCCAGCAGCAGAGTGGCC
CTGGCCTGGGCATCACAAAGCCAGTGATGCTCCTGGGAAGACCAGGTGGCAGGTCGCAGTTGGGTACCTTCCATT
CCACCACACAGACTCTGGGCCTCCCCGCAAAATGGCTCCAGAATTAGAGTAATTATGAGATGGTGGGAACCAGAG
CAACTCAGGTGCATGATAACAAGGAGAGGTTGTCTCTGGGTAGGGCAGAGAGGAGGGCTTGCTCATCTGAACAGG
GGTGTATTTCAATCCAGGCCCTCAGTCTTTGGCAATGGCCACCCTGGTGTGGCATATTGGCCCCACTGTAACCT
TTGGGGGCTTCCCGGTCTAGCCACACCCTCGGATGGAAAGACTTGACTGCATAAAGATGTCAGTTCTCCCTGAGT
TGATTGATAGGCTTAATGGTCACCCTAAAAACACCCACATATGCTTTTCGATGGAACCAGATAAGTTGACGCTAA
AGTTCTTATGAAAAATACACACGCAATAGCTAGGAAAACACAGGGAAAGAAGAGTTCTGAGCAGGGCCTAGTCT
TAGCCAATATTAAACATACTATGAAGCCTCTGATACTTAAACAGCATGGCGCTGGTACGTAAATAGACCAATGC
AGTTAGGTGGCTCTTTCCAAGACTCTGGGGAAAAAAGTAGTAAAAAGCTAAATGCAATCAATCAGCAATTGAAAG
CTAAGTGAGAGAGCCAGAGGGCCTCCTTGGTGGTAAAAGAGGGTTGCATTTCTTGCAGCCAGAAGGCAGAGAAAG
TGAAGACCAAGTCCAGAACTGAATCCTAAGAAATGCAGGACTGCAAGAAATTTGGTGTGTGTGTGTGTGTGTG
TGTGTGTGTGTTAATTTTTTAAAAAGTTTTTATTCGGAATCCGCG

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FIGURE 1224

MDLYSTPAAALDRFVARRLQPRKEFVEKARRALGALAAALRERGGRLGAAAPRVLKTVKGGSSGRGTALKGGCDS
ELVIFLDCFKSYVDQRRARRAEILSEMRALESWWQNPVPGRLRTFPEQSVPGALQFRLTSVDLEDWMDVSLVPAF
NVLGQAGSAVKPKPQVYSTLLNSGCQGGEGAACFTELRRNFVNIRPAKLKNLILLVKHWYHQVCLQGLWKETLPP
VYALELLTIFAWEQGCKKDAFSLGEGRLTVLGLIQQHQLCVFWTVNYGFEDPAVGQFLQRHVKRPRPVILDPAD
PTWDLGNGAAWHWDLHAQEAASCYDHPCFLRGMGDPVQSWKGPGLPRAGCSGLGHP IQLDPNQKTPENSKSLNAV
YPRAGSKPPSCPAPGPTAEPASYPSVPGMALDLSQIPTKELDRFIQDHLKPSPOFQEQVKKAIIDIILRCLHENCV
HKASRVSKGGSFGRGTDLRDGCDELIIIFLNCFTDYKDQGPRAEILDEMRAHVESWWQDQVPSLSLQFPEQNVP
EALQFQLVSTALKSWTDVSLPAPDAVGQLSSGTPKNPQVYSRLLTSGCQEGEHKACFAELRRNFMNIRPVKLKN
LILLVKHWYRQVAAQNKGKGPAPASLPPAYALELLTIFAWEQGCRQDCFNMAQGFRTVLGLVQQHQQLCVYWTVN
YSTEDPAMRMHLLGQLRKPRPLVLDPADPTWNVGHGSWELLAQEAALGMQACFLSRDGTSPQPDVMPALLYQT
PAGDLDFKFISEFLQPNRQFLAQVNKAVDITCSFLKENCFRNSPIKVIKVVKGGSSAKGTALRGRSDADLVVFLSC
FSQFTEQGNKRAEIISEIRAQLEACQQRQFEVKFEVSKWENPRVLSFSLTSQTMLDQSVDFDVLPAFDALGQLV
SGSRPSSQVYVDLIHSYSNAGEYSTCFTELQDFIISRPTKLKSLIRLVKHWYQQCTKISKGRGSLPPQHGLELL
TVYAWEQGKDSQFNMAEGFRTVLELVTQYRQLCIYWTINYNKDKTVGDFLKQQLQKPRPIILDPADPTGNLGH
NARWDLAKEAAACTSALCCMGRNGIPIQPWPVKA

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FIGURE 1225

CTTGTGTTCCCCGCCGCCGCTCGCTGACCCAGCCCGCCAGGCGCTCCTGACCGTCGCTTCCTCCGGTCCCAG
GTCCCCGGCCCTCGCCTCAGCCCCGGCCCTGGTCCCCAGCCCTCGTCGCAGCCCCGGCCGCCGCCGCCAT
GTCCAAGGAGGAGCGCCCCGGTCGGGAGGAGATCCTGGAGTGCCAGGTGATGTGGGAGCCTGACAGTAAGAAGAA
CACGCAGATGGACCGCTTCCGGGCGGCTGTGGGCGCCGCTGCGGCCTGGCGCTGGAGAGTTATGATGACTTGTA
CCATTGGTCCGTTGAGTCATATTAGACTTCTGGGCAGAGTTCTGGAAATTCAGTGGAATTGTCTTCTCACGTGT
GTATGATGAGGTTGTGGACACATCGAAAGGAATCGCAGATGTCCCGAGTGTTCAAAGGCAGTCGGCTCAACTA
TGCAGAAAACCTCCTGCGGCACAAAGAGAATGACAGAGTTGCCCTTTACATTGTAAGGGAAGGCAAAGAGGAAAT
TGTGAAGGTGACTTTTGAAGAGCTGAGGCAAGGAGTGGCTTTGTTTGAGCAGCAATGAGGAAAATGGGTGCGAA
GAAAGGAGATCGGGTTGTTGGTTATTTACCCAACAGTGAGCACGCTGTGAGGCGATGCTGGCTGCGGCAAGCAT
TGGTGCCATCTGGAGCTCCACGTCCCCGGACTTCGGTGTGAATGGTGTGCTGGACCGTTTTCTCAAATTCAGCC
AAAGCTCATCTTCTGTGGAGGCTGTTGTCTATAATGGCAAAGAGCACAAACCACATGGAAGAGCTGCAGCAGGT
GGTTAAAGGCCTACCAGACTTGAAGAAAGTGGTGGTGATTCTTATGTGTCTCCAGAGAGAACATAGACCTTTTC
AAAGATTCCAAACAGTGTGTTTCTGGATGACTTTCTTGCCACCGGCACCAGTGAGCAGGCCCCGCAGCTGGAGTT
CGAGCAGCTGCCCTTCAGCCACCCACTGTTTCATCATGTTCTCATCGGGCACCACGGGCGCACCCAAAGTGATGGT
GCATTCCGCTGGGGGCACCCCTCATCCAGCATCTGAAGGAGCACCTGCTGCACGGCAACATGACCAGCAGTGACAT
CCTCCTGTGCTACACCACGGTGGCTGGATGATGTGGAAGTGGATGGTGTCCCTTCTGGCCACAGGAGCGGCCAT
GGTCTTGATGATGGCTCCCCCTGGTGCCACGCCCAATGTGCTCTGGGACCTGGTTGACAGGATAGGCATCAC
TGTCTGGTAACTGGGGCCAAGTGGCTGTGAGTGTGGAAGAGAAGGCCATGAAGCCGGTGGAAACCCACAGTCT
CCAGATGCTCCACACGATCCTGTCCACTGGCTCCCCACTGAAAGCCCAGAGCTACGAGTATGTCTACAGGTGCAT
CAAGAGCAGCATCCTCCTGGGCTCCATCTCAGGAGGCACCGACATTATCTCCTGCTTCATGGGGCCACAATTTTTTC
TCTTCTGTGTATAAAGGGGAGATTTCAGGCCCGGAACCTGGGCATGGCCGTGGAAGCGTGGAACGAGGAAGGAAA
GGCGGTCTGGGGAGAGAGCGGCGAGCTGGTGTGTACTAAGCCGATCCCTTGCCAGCCACACACTTCTGGAACGA
TGAGAACGGCAACAAGTACAGGAAGGCGTATTTCTCCAAATTCAGGATCTGAGGCTCATGGCGACTACTGCAG
AATCAACCCCCAAGACCGGGGGCATCGTCATGCTTGGCCGGAGTGACGGCACCCCTCAACCCCCAAGGGGTGCGGTT
CGGCAGCTCGGAAATCTATAACATTGTGGAATCCTTCAGGAGGTGGAGGACAGCCTGTGTGTCCCCAGTATAA
CAAGTACAGGGAGGAGAGGGGTGATCCTCTTCTGAAGATGGCCTCCGGGCACGCTTCCAGCCTGACTTGGTTAA
GAGGATCCGTGACGCCATCCGCATGGGCTTGTCTGCGCGACAGTGCCAGCCTCATCCTGGAAACCAAGGGCAT
CCCGTATACGCTCAACGGCAAGAAAGTGAAGTTGCCGTCAAACAGATCATCGCTGGAAGCCGTGGAGCAAGG
AGGTGCTTTCTCGAACCCCGAGACCTGGATCTGTACCGGACATCCCTGAGCTGCAGGGCTTCTGAGTCAGACT
GGCTGGCGTGTCACTCAGCCGCACCCGTGTGCACTGTAACTTTTGTGTGCTCAAGAAATTATACAGAAACCTACA
GCTGTTGTAAAAGGATGCTCGCACCAAGTGTCTGTAGGCTTGGGAGGGATCGTTTCTGTGTTTGTAAATCT
GGTGGGTACCTGGATCTTCCACACGAGTGGGATTCTGGCCTTCAGAGACCAGGAGGGAGTGTCTGGGCCGCAGGT
GTGCACTGTGGTGAGAGTGTGTCTTTGCACACACAGTGCAAGTGGGAACGGTGGGGCTGGCTGGTGTGTAAGA
CAGACACACTCCTGAGCCAAGGTCTTGTCTTCAACCTCCCCGTCCCGTTGTCCATTTTGTCTGTGAAGGTGCA
AATCCCTTTCTTCCCTTCCCATCTCAGGCTCTCCTGTTTTCCCTCAGGGTCCAGTATGCCTTTGAGCTTTAGCTG
TTAGAAAGGAACCCCGTGACTTGACACAGCTTTCACAGCTGGCTGCTAGGACCGGCGGGCTGGGTGTTACAGTG
TGTCTGTGTCATGGATGCAATGCAGGCCCTGGAGGACTGTGCGTCACCCGTCAACCAGAGCGTGCTCCGGGCCA
GCTTCCCTCCAAGGAATGAGTGGATTTTCATACAGGATCTCTTTATTGACAGACTGAATGGCTTTACATGTTTCT
AATGTGAATTAGGCATGTGAAGCAGTGGGTGTCCACCCGTGTCCCTCATGGGTGAGCCCTCCAGCTGTGAGCCCA
GGCAGTGTGGTCACCGAGTGAGGACCCCTCCTCACCAGGAACCGCATCCCTGTGCTGCCTCCACCTGAGAGTTGCT
AGGGGGTTCTTGTGAGATCATGTCTCAGCACCCCTAAGTCAAGTCACGGGTTTTCCATAGCCAGGCAGTTGGTA
TGTACAATTAGTTTCAGCGTATGAACTTGTATCTCTAATCTGATGTCCATTTTTTATATTTTTTGAAGTGCAGC
AATGAAATCCTTTCTTGAATCATTTTCTTTTTGGATTATAAAAATATGGGGGAAGTGCTATGATGAATTTTATG
CAATAAATGTATACATGTGTGCACATGC

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FIGURE 1226

MSKEERPGRREEILECQVMWEPDSKKNTQMDRFRAAVGAACGLALESYDDLYHWSVESYSDFWAEFWKFSGIVFSR
VYDEVVDTSKGIADVPEWFKGSRLNYAENLLRHKENDRVALYIVREGKEEIVKVTFEELRQGVALFAAAMRKMGA
KKGDRVVGYPNSEHAVEAMLAASIGAIWSSTSPDFGVNGVLDLRFSSQIQPKLIFSVEAVVYNGKEHNHMEKLQQ
VVKGLPDLKKVVVIPYVSSRENIDLSKIPNSVFLDDFLATGTSEQAPQLEFEQLPFSHPLFIMFSSGTTGAPKCM
VHSAGGTLIQHLKEHLLHGNMTSSDILLCYTTVGWMMWNWMVSLLATGAAMVLYDGSPLVPTPNVLWDLVDRIGI
TVLVTGAKWLSVLEEKAMKPVETHSLQMLHTILSTGSPLKAQSYEYVYRCIKSSILLGSISGGTDIISCFMGHNF
SLPVYKGEIQARNLGMAVEAWNEEGKAVWGESGELVCTKPIPCQPTHFWNDENGNKYRKAYFSKFPGIWAHGDYC
RINPKTGGIVMLGRSDGTLNPNVRFSGSEIYNIVESFEEVEDSLCVPQYNKYREERVILFLKMASGHAFQPDIV
KRIRDAIRMGLSARHVPSLILETKGIPYTLNGKKVEVAVKQIIAGKAVEQGGAFSNPETLDLYRDIPELQGF

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FIGURE 1227

CGCTGTTGTTAGTCACCGCGGAGCCGCCGAAACCTGCAGGAGTCTACTATGCAACTGCATACTGGATGCGCTGCTG
AAAAGACAGTACAAGTCAAAAAATGTAATGGACAAGAATGGGGACGCCTATGGCTTTTACAATAACTCTGTGAAAA
CCACAGGCTGGGGCATCCTGGAGATCAGAGCTGGCTATGGCTCTCAAACCCTGAGCAATGAGATCATCATGTTTG
TGGCTGGCTTTTTTGGAGGGTTACCTCAGTCCCCACACATGAATGACCACTACACAAACCTCTACCCACAGCTGA
TCACGAAACCTTCCATCATGGATAAAGTGCAGGATTTTATGGAGAAGCAAGATAAGTGGACCCGAAAAATATCA
AAGAATACAAGACTGATTCATTTTGGAGACATACAGGCTATGTGATGGCACAATAGATGGCCTCTATGTAGGAG
CAAAGAAGAGGGCTATATTAGAAGGGACAAAGCCAATGACCCTGTTCCAGATTCAGTTCCTGAATAGTGTGGAG
ATCTATTGGATCTGATTCCCTCACTCTCTCCACAAAAAACGGCAGCCTAAAGGTTTTTAAGAGATGGGACATGG
GACATTGCTCCGCTCTTATCAAGGTTCTTCCTGGATTTGAGAACGTCCTTTTTTGCTCACTCAAGCTGGTACACGT
ATGCAGCCATGCTCAGGATATATAAACACTGGGACTTCAACATCATAGATAAAGATACCAGCAGTAGTCGCCTCT
CTTTCAGCAGTTACCCAGGGTTTTTGGAGTCTCTGGATGATTTTTACATTCTTAGCAGTGGATTGATATTGCTGC
AGACCACAAACAGTGTGTTTAAATAAACCCCTGCTAAAGCAGGTAATACCCGAGACTCTCCTGTCTGGCAAAGAG
TCCGTGTGGCCAATATGATGGCAGATAGTGGCAAGAGGTGGGCAGACATCTTTTCAAAATACAACCTCTGGCACCT
ATAACAATCAATACATGGTTCTGGACCTGAAGAAAGTAAAGCTGAACCACAGTCTTGACAAAGGCACCTCTGTACA
TTGTGGAGCAAATTCCTACATATGTAGAATATTCTGAACAACTGATGTTCTACGGAAAGGATATTGGCCCTCCT
ACAATGTTCTTTCCATGAAAAAATCTACAACCTGGAGTGGCTATCCACTGTTAGTTCAGAAGCTGGGCTTGGACT
ACTCTTATGATTTAGCTCCACGAGCCAAAATTTCCGGCGTGACCAAGGGAAAGTGACTGATACGGCATCCATGA
AATATATCATGCGATACAACAATTATAAGAAGGATCCTTACAGTAGAGGTGACCCCTGTAATACCATCTGCTGCC
GTGAGGACCTGAACTCACCTAACCCAAGTCCTGGAGGTTGTTATGACACAAAGGTGGCAGATATCTACCTAGCAT
CTCAGTACACATCCTATGCCATAAGTGGTCCACAGTACAAGGTGGCCTCCCTGTTTTTCGCTGGGACCGTTTCA
ACAAAACTCTACATCAGGGCATGCCAGAGGTCTACAACCTTGATTTTATTACCATGAAACCAATTTTGAACTTG
ATATAAAATGAAAGGAGGGAGATGACGGACTAGAAGACTGTAAATAAGATACCAAAGGCACCTATTTTAGCTATGTT
TTTCCCATCAGAATTATGCAATAAAATATATTAATTTGTCAAAAAAAAAAAAAAAAAA

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FIGURE 1228

MPAEKTVQVKNVMDKNGDAYGFYNNVKTITGWGILEIRAGYGSQTLSEIIMFVAGFLEGYLTAPHMNDHYTNLY
PQLITKPSIMDKVQDFMEKQDKWTRKNIKEYKTDSFWRHTGYVMAQIDGLYVGAKKRAILEGTKPMTLFQIQFLN
SVGDLLDLIPSLSP TKNGSLKVFKRWDMGHCSALIKVLPGFENVLFAHSSWYTYAAMLRIYKHWDENIIDKDTSS
SRLSFSSYPGFLESLLDDFYILSSGLILLQTTNSVFNKTLKQVIPETLLSWQVRVANMMADSGKRWADIFSKYN
SGTYNNQYMVLDLKKVKLNHSLDKGTLYIVEQIPTTYVEYSEQTDVLRKGYWPSYNVPFHEKIYNWSGYPLLQKL
GLDYSYDLAPRAKIFRRDQGVKTD TASMKYIMRYNNYKDPYSRGDPCNTICCREDLNSPNPSPGGCYDTKVADI
YLASQYTSYAISGPTVQGGLPVFRWDRFNKTLHQGMPEVYNFDFITMKPILKLDIK

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FIGURE 1229

CATAACAAGCCAAACGCCAGACCGAGAGTGCCTCCGTGCGCGAGTGCCCGGTGTGTGCGCGCCGGCGAGAGCAGG
GGCCCGCCCGGCTCCCCGCCCGCGCGCCCGAACTCATGCAGCTCCGAGCGAGCGAGCGGGCGCCAGCCCAGCG
CCTCGGCCGAACCCCTCCGCAGCAGGCTGCCTGCTGTTTCCCGGGGAGATCATGAAACGAGGTGCGCTTCCAGC
AGCAGTGAGGATTCTGACGACAATGGCAGCCTGTCAACTACTTGGTCCCAGAATTCCCGATCCAGCATAGGAGA
AGCTCCTGCTCCAGACATGAAGATCGAAAGCCTTCAGAGGTGTTTAGGACAGACCTGATCACTGCCATGAAGTTG
CATGACTCCTACCAGCTGAATCCGGATGAGTACTATGTGTTGGCAGATCCCTGGAGACAGGAATGGGAGAAAGGG
GTCCAGGTGCCTGTGAGCCCCGGGGACCATCCCTCAGCCTGTGGCCAGGGTTGTGTCTGAAGAGAAATCCCTCATG
TTCATCAGGCCCAAGAAGTACATCGTGTATCAGGCTCTGAGCCTCCCGAGTTGGGCTATGTGGACATCCGGACG
CTGGCTGACAGCGTGTGTGCTATGACCTCAATGACATGGATGCTGCATGGCTGGAACCTGACCAATGAAGAATTT
AAGGAGATGGGAATGCCTGAACTAGATGAATACACCATGGAGAGGGTCTAGAGGAATTTGAGCAGCGATGCTAC
GACAATATGAATCATGCCATAGAGACTGAGGAAGGCCTGGGGATCGAATATGATGAAGATGTTGTCTGTGATGTC
TGCCAGTCTCCTGATGGTGAGGACGGCAATGAGATGGTGTCTGTGACAAATGCAACATCTGTGTGCACCAGGCC
TGTTATGGAATCCTCAAGGTACCAGAGGGCAGCTGGCTGTGCCGGACATGTGCCCTGGGGGTTTCAGCCAAAATGT
CTGCTGTGTCCGAAGAAGGGTGGAGCTATGAAGCCCACCCGTAGCGGAACCAAGTGGGTCCACGTTAGCTGTGCT
CTGTGGATCCCTGAGGTGAGCATTGGCAGCCCAGAGAAGATGGAGCCCATCACCAAGGTGTACACATTCCAGC
AGCCGGTGGGCGCTAGTGTGCAGCCTCTGCAATGAGAAGTTTGGGGCCTCTATACAGTGCTCTGTGAAGAACTGC
CGCACAGCCTTCCATGTGACCTGTGCTTTTGACCGGGCCTGGAGATGAAGACCATCTTAGCAGAGAATGATGAA
GTCAAGTTCAAGTCTATTGCCCAAAGCACAGCTCACATAGGAAACCCGAGGAGAGTCTTGGAAGGGGGCTGCA
CAGGAGAATGGGGCCCCCTGAGTGTTCCTCCCGGAATCCGCTGGAGCCCTTTGCCAGCCTTGAGCAGAACCGGGAG
GAGGCCACCGGGTGAGTGTCCGTAAGCAGAAGCTGCAGCAGTTGGAGGATGAGTTCTACACCTTCGTCAACCTG
CTGGATGTTGCCAGGGCTCTGCGGCTGCCTGAGGAAGTAGTGGATTTCTGTACCAGTACTGGAAGTTGAAGAGG
AAGGTCAACTTCAACAAGCCCCGTGATACCCCAAAGAAAGATGAAGAGGACAATCTAGCCAAGCGGGAGCAGGAT
GTCTTATTTAGGAGGCTGCAGCTGTTACGCACCTGCGGCAGGACCTGGAGAGGGTAATGATTGACACTGACACC
TTATAGTGACTTAGAGAAGAAGATGCAAAGAGGCGAACGCTCGCCAGAGCAAGAAATGATAGCCAGTCATATAC
TCTCAGACCTTGTACACACCACAGCATGAGGTTGTGTTGGTTAAAAATATTTATGGGCTGGTAACTCATTGTA
CATATGTGAAAACCTGCTACTGAGTGGGGAGCTTCTTTGTGGTTTTTTTTTTTTTAAAAACACTTTCCCATTAATC
TTTACTGTTTTGTAAAGATCAAAATGGGGTGTGCTTCCCCACCCCACTTCCTTCATTCTAGAGCTAGAGTGAATGA
GCCCCAAGAAAATGACCAAGGAGTTGACTCAGGATGGTTTACAGACTGATTTAGAAAACAGAACGGATTTCAT
TTCTAATGGAGGGGGCCAGAGATGGGAAAATTTCTTGTTAGTCCGGGGAAACACACCTAGGTGCTGGTGATGGG
CTTATGAAGGAAGCTAAGCACGGCTGCTCACTGGCCCCCACTTTGTTTCTTGGGTAATTCACAGGGGAATTCCCA
GTACTGTGATGGAGCAGAGCAGGCAGTGGGTGCTGATGTGTGTGTCATGAGCTGTATGTACACATGCATATATCTG
TTACAGAAGATACTCCTGGCAGTGAGGTGCTAAGTCATCACTGAGGCTGTGTGTGTGTGTGTGTGTGCGCGTGCC
CGTGTCCATCCATGTCTCTGTTGTGTGTCTGTGTGCGGGTATGGGTGGGATTCTGGTGACAGGGGTGTCAGAT
CTGTCTGAGGAGCCCCAGTCATGCTCAGCACGCTACAGATGTGTTGTTTGTACACTGAGATTGCTGAATGTCGT
GGCTGTTGGCTGCCGAGCCTCAGCTGCTGGCAATTCCTTCTGCTGTTTGTGCTTTTTGTGCTCCCCCACTTTCC
ATCACCTCTGGAGTCCCGTCTGGACGTCCCTTCCTGCTACAGGAATAATGAGGCGTGGGCTGCCTCCCGCTAGGG
CCTCCTGCTCCCTGTAGGTAGTTTCTGGCTGAGGCTTGCTAATTGGGGATGCTTCTTAGAGCATCTTCCACATCA
ACTCCCTGGCTGCTGGCTACCGATTAAATTCATTAGTGTGAAAGAGGTGGGAGTGAGGTTTTCTGGCCTGAAGC
AGTCTGCACTGAAAAGGTACCCAAGTGGCCTGAAACAGTGTAGGGAAAGACCTGGGAAACACTGGACCAAAAAGC
CTGATCTCATGGAGACCTGCATGGCCCTGTTAGAGATGGCGTAGAAGTGAAAGTCTTAAAGGGAGCATTAGAGAT
CCTTTTAATACACGACTGAGTGCCAGCTTATTTGTGATGCCCTTCCAGACCAGGTTAGGATTCTTGGGAAGGC
CGCGGATTCCGGCCCTGGAAGAGGCAGGATCCTGGAGCAGTTTTGTGAGGCTTTTGTGCTCCCATACGCCCCCTG
GTGGTGAGTGTAAGAAGACTTTGCCTCTCACAACCTACATGTATGTGTGGCATTTTTGTAGAGATGAGAAAAGG
ATTGAGAAGGATAAACTGGAATCCTGGTAAGAAGCCTTTATGCCAGCCCGACACCTGCTGTAATTGGGGTGCATG
AGCTATGGAGTCAGATAGTTGTTGGGAGGGGGAGGACAAGAAGTCTATTGTTTGGACTGTGTTTGTCTCACAATC
ACCACAAAATAAAAGTGTAGAAAATGCTTGTGGTGTACTAACTCTTTTCTGACTTAAGTTACTCAGATTAACAT
GCACTTCTAATTCTAAACATTTTTTTTTTGGAGTCATCACTGTCGCTGTTTAAGTAGAACAATGCCAACGATGTATG
AGAAACAGGGAATAAATCAGGATTTGTGTGTGT

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FIGURE 1230

MKRGRLPSSSEDSDDNGSLSTTWSONSRSQHRRSSCSRHEDRKPSEVFRDITAMKLHDSYQLNPDEYYVLADP
WRQEWKGVQVPVSPGTIPQVARVVSEEKSLMFIRPKYIVSSGSEPPELGYVDIRTLADSVCRYDLNDMDAAW
LELTNEEFKEMGMPELDEYTMERVLEEFQRCYDNMNHAIETEEGLGIEYDEDVVCQSPDGEDGNEMVFCDK
CNICVHQACYGILKVPEGSWLCRTALGVQPKLLCPKKGGAMKPTRSGTKWVHVSCALWIPEVVSIGSPEKMEPI
TKVSHIPSSRWALVCSLCNEKFGASIQCSVKNCRATFHVTCAFDRGLEMKTILAENDEVKFKSYCPKHSSHRKPE
ESLGKGAQENGAPCECSPRNPLEPFASLEQNREEAHRVSVRKQKLQQLLEDEFYTFVNLLDVARALRLPEEVVDFL
YQYWKLKRKVNFNKPLITPKKDEEDNLAKREQDVLFRRLQLFTHLRQDLERVMIDTDTL

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FIGURE 1231

ATTCAAGGGAGGCAGGCGCTTTGGAAGTTTGTAACACCAACTTTCTGAGTAAGGGAGGAGCACTTTTTTCCAA
AAAGGAAAGAACGTCTCTACTGGGTTTTTTTCTCCTGATATTCAGCATTAGAGTAGAAAAGAACTATTGTTTG
GCCACATTAGCCGTGGTTAGCAGGTGCTGCAGCCTTTGCCACTGTTATTATTTTTAAAGGGCAGAAATGCCTGAA
GGTGAAGACTTTGGACCAGGCAAAAGCTGGGAAGTTATCAATTCCAAACCAGATGAAAGACCCAGGCTCAGCCAC
TGTATTGCAGAATCATGGATGAATTTTCAGCATATTTCTTCAAGAAATGTCTCTTTTTAAACAGCAGAGCCCTGGC
AAGTTTTGTCTCCTGGTCTGTAGTGTGTGCACATTTTTTACGATCTTGGGAAGTTACATTCCTGGGGTTATACTC
AGCTATCTACTGTTACTGTGTGCATTTTTGTGTCCATTGTTTAAATGTAATGATATTGGACAAAAAATTTACAGC
AAAATTAAGTCAGTTCTGCTGAAACTGGATTTTTGGAATTGGAGAATATATTAATCAGAAAGAAACGTGAGAGATCT
GAAGCAGACAAAGAAAAAAGTCACAAAGATGACAGTGAATTAGACTTTTCAGCTCTTTGTCCTAAGATTAGCCTC
ACGGTTGCTGCCAAAGAGTTATCTGTGTCTGACACAGACGTCTCAGAGGTATCCTGGACTGATAATGGGACCTTC
AACCTTTTCAGAAGGATACACTCCACAGACAGACACTTCTGATGATCTTGACCGACCCAGTGAGGAAGTTTTCTCT
AGAGATCTTTTCAGATTTTTCCATCTCTAGAAAATGGCATGGGAACAAATGATGAAGATGAATTAAGCCTTGGTTTG
CCCCTGAGCTCAAGAGAAAAGAAGGAACAGTTGGACAGTGGTCACAGACCAAGCAAAGAGACGCAATCAGCAGCT
GGTCTCACCCCTTCTCTGAACAGTGACCAACCTTTACCTGATGAGCAACCTGGCTGGGGATGTTATCACAGCT
GCAGTGACTGCAGCTATCAAAGACCAGTTAGAGGGTGTGCAGCAAGCACTTTCTCAGGCTGCCCCCATCCAGAA
GAGGACACAGACACTGAAGAAGGTGATGACTTTGAACTACTTGACCAGTCAGAGCTGGATCAAATTGAGAGTGAA
TTGGGACTTACACAAGACCAGGAAGCAGAAGCACAGCAAAATAAGAACTCTTCAGGTTTCCTTTCAAATCTGCTG
GGAGGCCATTAACTCTAGGAATCAGCTTGCAACAGAGCACAAAAAACCAAAAAAATTTCAAACAAGAAAAA
AAAAAAGGAAAGAAAAAATTGAAGTGAAGCTTTAATGATTACTTTAGATTTGTTTTATTTTCCCTCCTG
CAGTGAATTAATTGGATATATATCAGCTGACACTGATAGATTGATATTTCTGATCGTTATTTTTGTGTCTATAAGC
ATGGAAATGAACCTTTATACACACCCTGTGTTGTGCAGAGATAAATATTAGGGTTGTTTTTAAAGCAAAAAGAAA
AAAACAAAACCAAACCTATTAAAATCCTCCTATAAATATTCTTTTTCTTTACAGTTTTTCAAGCATGCAAAACAG
TTTATTGTAACCTACTGAAAAATATTAACAATTAATTGTGAATACATGCTGTTACCAGCTTCCTTATTCTAATA
CCTGGAAAAATTTTTTTTCAACGGATAGATTTTGATGTAAAAAAGACCGAAATTATCAAGGTATCTTAGTTGAAG
GACTTGGGAAATACTATCAAATTAATTTCTTAGGAAAAAATTTAAAGTATATTTAAGTACTCTGGATAGACTG
AAACGTTTCCATGTTATTTCTGCAGTTGTAGACTTAGGCTTATTTGTAAAGAAGCATGCTCCATTGACTGCCATC
TCTAGTCTTGCACTGGGTGGTATTAACCCATAGAAAGCAAGCAGTTGTGTATCACATAGACAATGGTTATGATGT
AAACAGATTCAGTTGTTTTGTTGTTTCATTTCGTCATATGTTTGTGATAGGGATGTTGGGAGCACAGCTCTATTCTG
CCTGCTCAGACTTAAGTTAGACCCCTTATCTTTTATATTATGTCATGAAAAAGTCTCCTAAAATTGTGAACTAG
TTCTTGATGAGTGATGTGATCATCAGCAATAAAGATATAATAACTCTGTTTTCTTAGCCTGTATAGAGGAGAGGA
ACTTGCTTGGCTTTAAAATATATTTATTTGCCATTTAAGTATAAATATGGAATCTGTTTCTTATTGGGAAGATAG
AATATATATATTTTCTTTAACTTTTTAAGGTCACCTTTAAATAACCAAATTTGATTTATGGTTTTTAACAAAG
GACTAAAGAGCTGAAACCAACCTAGTTTTGTTTTGTGATATAAACTTTAAGTGTGAGGGACCATGCCAGCAAC
TACCAAAATCTCTTAAATCTTCAGGTACAGCTGGCATTTTGGCAGATGCATAGAGACATCTGAGACCCTCAGAA
AGGAAGGATAATCCAAGAATATAGGAAATCTGTGTTCTCTTCTTCATTTTATCCCTTATATTTCTAAAGACTA
ATTATAAGTAATCTGACATTTAATGTAGCTACTCTTATTTATTTTTCTTTCTGAGGTATTTAAATATCTGGAC
TGAGTTTTGCCAAATGTTAAAGGGAGAAGAGTTACTGAAGACTTTGAACACTTGCTTTTTGTGATTGCTTATGTC
ATTAGTGCTCATGACTGTGTTTGATGTCCTTTATTGATACAAAGTGAGCCTGTGCCTTCATTATCTTGCCCAT
TTAATACAAATGGAACCTGGTGTGTTGAAAACTCTGAACTGTGTGGGTTTTGGAGGAATATACCTGAATTTTAT
TCAATAACAGTTTCTGGACAGGAAGAAAAATACAGTTACATATTTATAAAAAA

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FIGURE 1232

MPEGEDFGPGKSWEVINSKPDERPRLSHCIAESWMNFSIFLQEMSLFKQQSPGKFCLLVCSVCTFFETILGSYIPG
VILSYLLLLCAFLCPLFKCNDIGQKIYSKIKSVLLKLDFGIGEYINQKKRERSEADKEKSHKDDSELDFSALCPK
ISLTVAAKELSVSDTDVSEVSWTDNGTFNLSEGYTPQTDTSDDLDRPSEEVFSRDLSDFPSLENGMGTDNDEDELS
LGLPTELKRKKEQLDSGHRPSKETQSAAGLTPLNSDQTFHLSNLAGDVITAAVTAAIKDQLEGVQQALSQAAP
IPEEDTDTEEGDDFELLDQSELDQIESELGLTQDQEAQAQNKSSGFLSNLLGGH

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FIGURE 1233

GGCACGAGGGGCGACGCGAGCGCCGCGCTTCGCTTCAGCTGCTAGCTGGCCCAAGGGAGGCGACCGCGGAGGGT
GGCGAGGGGCGGCCAGGACCCGCGAGCCCCGGGGCCGGGCCGGTCCGGACCGCCAGGGAGGGCAGGTCAGTGGGCA
GATCGCGTCCGCGGGATTCAATCTCTGCCCCTCTGATAACAGTCTTTTTCCCTGGCGCTCACTTCGTGCCTGGC
ACCCGGCTGGGCGCCTCAAGACCGTTGTCTCTTCGATCGCTTCTTTGGACTTGGCGACCATTTCAGAGATGCTCTT
CCAGAAGTACCAAAGATTTAATTTAAAAGTAAGTGGGGATCGAAGCCTAGTAACCTCAAATCCGAAACTACATTAG
AAAAATTAAGGGAGAAATTGCACACTTAAAGACATCAGTGGATGAAATCACAAGTGGGAAAGGAAAGCTGACTG
ATAAAGAGAGACACAGACTTTTGGAGAAAATTCGAGTCCTTGAGGCTGAGAAGGAGAAGAATGCTTATCAACTCA
CAGAGAAGGACAAAGAAATACAGCGACTGAGAGACCAACTGAAGGCCAGATATAGTACTACCGCATTGCTTGAAC
AGCTGGAAGAGACAACGAGAGAAGGAGAAAGGAGGGAGCAGGTGTTGAAAGCCTTATCTGAAGAGAAAGACGTAT
TGAAACAACAGTTGTCTGCTGCAACCTCACGAATTGCTGAACTTGAAAGCAAAACCAATACACTCCGTTTATCAC
AGACTGTGGCTCCAACTGCTTCAACTCATCAATAAATAATATTTCATGAAATGGAAATACAGCTGAAAGATGCTC
TGGAGAAAAATCAGCAGTGGCTCGTGTATGATCAGCAGCGGGAAGTCTATGTAAAAGGACTTTTAGCAAAGATCT
TTGAGTTGGAAAAGAAAACGGAAAACAGCTGCTCATTCACTCCCACAGCAGACAAAAAAGCCTGAATCAGAAGGTT
ATCTTCAAGAAGAGAAGCAGAAATGTTACAACGATCTCTTGGCAAGTGCAAAAAAAGATCTTGAGGTTGAACGAC
AAACCATAACTCAGCTGAGTTTTGAACTGAGTGAATTTGGAAGAAAATATGAAGAAACCCAAAAAGAAGTTCACA
ATTTAAATCAGCTGTTGTATTCACAAAGAAGGGCAGATGTGCAACATCTGGAAGATGATAGGCATAAAACAGAGA
AGATACAAAAACTCAGGGAAGAGAATGATATTGCTAGGGGAAAACCTTGAAGAAGAGAAGAAAGAGATCCGAAGAGC
TCTTATCTCAGGTCCAGTTTTCTTTACACATCTCTGCTAAAGCAGCAAGAAGAACAACAAGGGTAGCTCTGTTGG
AACAAACAGATGCAGGCATGTACTTTAGACTTTGAAAATGAAAACTCGACCGTCAACATGTGCAGCATCAATTGC
TTGTAATTTCTTAAGGAGCTCCGAAAAGCAAGAAATCAAATAACACAGTTGGAATCCTTGAAACAGCTTCATGAGT
TTGCCATCACAGAGCCATTAGTCACTTTCCAAGGAGAGACTGAAAACAGAGAAAAAGTTGCCGCCTCACCAAAAA
GTCCCACTGCTGCACTCAATGAAAGCCTGGTGAATGTCCCAAGTGCAATATACAGTATCCAGCCACTGAGCATC
GCGATCTGCTTGTCCATGTGGAATACTGTTCAAAGTAGCAAAATAAGTATTTGTTTTGATATTAAAAGATTCAAT
ACTGTATTTTCTGTTAGCTTGTGGGCATTTTGAATTATATATTTTACATTTTGCATAAAACTGCCTATCTACCTT
TGACACTCCAGCATGCTAGTGAATCATGTATCTTTTAGGCTGCTGTGCATTTCTCTTGGCAGTGATACCTCCCTG
ACATGGTTTCATCATCAGGCTGCAATGACAGAATGTGGTGAGCAGCGTCTACTGAGACTACTAACATTTTGCAGTG
TCAAAATACTTGGTGAGGAAAAGATAGCTCAGGTTATTGCTAATGGGTTAATGCACCAGCAAGCAAAATATTTTA
TGTTTTGGGGGTTTGA AAAATCAAAGATAATTAACCAAGGATCTTAAGTGTGTTTCGCATTTTTTATCCAAGCACT
TAGAAAACCTACAATCCTAATTTTGATGTCCATTGTTAAGAGGTGGTGATAGATACTATTTTTTTTTTTCATATTG
TATAGCGGTTATTAGAAAAGTTGGGGATTTTCTTGATCTTTATTGCTGCTTACCATTGAACTTAACCCAGCTGT
GTTCCCAACTCTGTTCTGCGCACGAAACAGTATCTGTTTGAGGCATAATCTTAAGTGGCCACACACAATGTTTT
CTCTTATGTTATCTGGCAGTAACTGTAACCTGAATTACATTAGCACATTCTGCTTAGCTAAAATTGTTAAAATAA
ACTTTAATAAACCCATGTAGCCCTCTCATTGATTGACAGTATTTTAGTTATTTTGGCATTCTTAAGCTGGGC
AATGTAATGATCAGATCTTTGTTTGTCTGAACAGGTATTTTATACATGCTTTTGTAAACCAAAAACCTTTTAA
TTTCTTCAGGTTTCTAACATGCTTACCCTGGGCTACTGTAAATGAGAAAAGAATAAAATTATTTAATGTTTTA
AAAAAAAAAAAAAAAAAAAA

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FIGURE 1234

MSSRSTKDLIKSKWGSKPSNSKSETTLEKLGKGEIAHLKTSVDEITSGKGKLTDKERHRLLEKIRVLEAEKEKNAY
QLTEKDKEIQRLRDQLKARYSTTALLEQLEETTREGERRREQVLKALSEEKDVLKQQLSAATSRIAELESKTNTLR
LSQTVAPNCFNSSINNIHEMEIQLKDALEKNQQLVYDQQREVYVKGLLAKIFELEKKTETAHSLPQQTKKPES
EGYLQEEKQKCYNDLLASAKKDLEVERQTITQLSFELSEFRKYEETQKEVHNLNQLLYSQRRADVQHLEDDRHK
TEKIQLREENDIARGKLEEEKRSEELL SQVQFLYTSLLKQQEEQTRVALLEQQMQACTLDFENEKLD RQH VQH
QLLVILKELRKARNQITQLES LKQLHEFAITEPLVTFQGETENREKVAASPKSPTAALNESLVECPKCNIQYPAT
EHRDLLVHVEYCSK

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FIGURE 1235

GTCTCTTCCTCGCTCCCTCTCTTTCTCTCTCCCTCTGCCTTCCCAGTGCATAAAGTCTCTGTCTCGCTCCCGGAAC
TTGTTGGCAATGCCTATTTTTTGGCTTTCCCCCGCGTTCTCTAAACTAACTATTTAAAGGTCTGCGGTGCAAAT
GGTTTGACTAAACGTAGGATGGGACTTAAGTTGAACGGCAGATATATTTCACTGATCCTCGCGGTGCAAATAGCG
TATCTGGTGCAGGCCGTGAGAGCAGCGGGCAAGTGCATGCGGTCTTCAAGGGCTTTTCGGACTGTTTGCTCAAG
CTGGGGCAGCAGCATGGCCAACCTACCCGCAGGGCCTGGACGACAAGACGAACATCAAGACCGTGTGCACATACTGG
GAGGATTTCCACAGCTGCACGGTCACAGCCCTTACGGATTGCCAGGAAGGGGCGAAAGATATGTGGGATAAACTG
AGAAAAGAATCCAAAAACCTCAACATCCAAGGCAGCTTATTCGAACTCTGCGGCAGCGGCAACGGGGCGGCGGGG
TCCCTGCTCCCGGCGTTCCCGGTGCTCCTGGTGTCTCTCTCGGCAGCTTTAGCGACCTGGCTTTCTTCTGAGCG
TGGGGCCAGCTCCCCCGCGCGCCACCCACACTCACTCCATGCTCCCGAAATCGAGAGGAAGATCCATTAGTT
CTTTGGGGACGTTGTGATTCTCTGTGATGCTGAAAACACTCATATAGGATTGTGGGAAATCCTGATTCTCTTTTT
TATTTTCGTTTGATTCTTGTGTTTTATTGCCAAATGTTACCAATCAGTGAGCAAGCAAGCACAGCCAAAAATCGG
ACCTCAGCTTTAGTCCGTCTTCACACACAAATAAGAAAACGGCAAACCCACCCCATTTTTTAATTTTATTATTAT
TAATTTTTTTTTGTTGGCAAAAAGAAATCTCAGGAACGGCCCTGGGGCACCTACTATATTAATCATGCTAGTAACATG
AAAAATGATGGGCTCCTCCTAATAGGAAGGCGAGGAGAGGAGAAGGCCAGGGGAATGAATTCAAGAGAGATGTCC
ACGGCCGAAACATACGGTGAATAATTACGCTCACGTCGTTCTTCCACAGTATCTTGTTTTGATCATTTCCTG
CACATTTCTCCTCAAGAAAAGCGAAAGGACAGACTGTTGGCTTTGTGTTTGGAGGATAGGAGGGAGAGAGGGAAG
GGGCTGAGGAAATCTCTGGGGTAAGAGTAAAGGCTTCAGAAGACATGCTGCTATGGTCACTGAGGGGTTAGCTT
TATCTGCTGTTGTTGATGCATCCGTCCAAGTTCACTGCCTTTATTTTCCCTCCTCCCTCTTGTTTTAGCTGTTAC
ACACACAGTAATACCTGAATATCCAACGGTATAGATCACAAGGGGGGATGTTAAATGTTAATCTAAAAATATAGC
TAAAAAAAGATTTTGACATAAAAGAGCCTTGATTTTAAAAAAAAGAGAGAGAGATGTAATTTAAAAAGTTTAT
TATAAATTAAATTCAGCAAAAAAAGATTTGCTACAAAGTATAGAGAAGTATAAAATAAAAGTTATTGTTTGAAAA
AAAAAAAAAAAAAA

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FIGURE 1236

MGLKLNGRYISLILAVQIAYLVQAVRAAGKCDVFKGFSDCLLKLGDSMANYPQGLDDKTNIKTIVCTYWEDFHSC
TVTALTDCQEGAKDMWDKLRKESKNLNIQGSLELCGSGNGAAGSLLPAFPVLLVSLAALATWLSF

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FIGURE 1237

GTCTCAGCGGCTGCCAACAGATCATGAGCCATCAGCTCCTCTGGGGCCAGCTATAGGACAACAGAACTCTCACCA
AAGGACCAGACACAGTGAGCACCATGGGACAGTGTCGGTCAGCCAACGCAGAGGATGCTCAGGAATTCAGTGATG
TGGAGAGGGCCATTGAGACCCCTCATCAAGAACTTTACCAGTACTCCGTGGAGGGTGGGAAGGAGACGCTGACCC
CTTCTGAGCTACGGGACCTGGTCACCCAGCAGCTGCCCCATCTCATGCCGAGCAACTGTGGCCTGGAAGAGAAAA
TTGCCAACCTGGGCAGCTGCAATGACTCTAAACTGGAGTTTCTGGGAGCTGATTGGAGAAGCGGCCA
AGAGTGTGAAGCTGGAGAGGCCTGTCCGGGGGCACTGAGAACTCCCTCTGGAATTCCTGGGGGGTGTGGGGAGA
GACTGTGGGCCTGGAGATAAACTTGTCTCCTCTACCACCACCCTGTACCCTAGCCTGCACCTGTCCTCATCTCT
GCAAAGTTCAGCTTCCTTCCCCAGGTCTCTGTGCACTCTGTCTTGGATGCTCTGGGGAGCTCATGGGTGGAGGAG
TCTCCACCAGAGGGAGGCTCAGGGGACTGGTTGGGCCAGGGATGAATATTTGAGGGATAAAAAATTGTGTAAGAGC
CAAAGAATTGGTAGTAGGGGGAGAACAGAGAGGAGCTGGGCTATGGGAAATGATTTGAATAATGGAGCTGGGAAT
ATGGCTGGATATCTGGTACTAAAAAAGGGTCTTTAAGAACCTACTTCCTAATCTCTTCCCCAATCCAAACCATAG
CTGTCTGTCCAGTGCTCTCTTCCTGCCTCCAGCTCTGCCCCAGGCTCCTCCTAGACTCTGTCCCTGGGCTAGGGC
AGGGGAGGAGGGAGAGCAGGGTTGGGGGAGAGGCTGAGGAGAGTGTGACATGTGGGGAGAGGACCAGCTGGGTGC
TTGGGCATTGACAGAATGATGGTTGTTTTGTATCATTTGATTAATAAAAAAAAAAATGAAAAAAGTGAAAAAAAAA
AAAAAA

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FIGURE 1238

MGQCRSANAEDAQEFSDVERAIETLIKNFHQYSVEGGKETLTPSELRLVTQQLPHLMPSNCGLEEKIANLGSCN
DSKLEFRSFWELIGEAAKSVKLERPVRGH

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FIGURE 1239

ATTCCGGAGCGTTTGC GGCTTCGCTTCATGGCCGCTCTCCCGCCCCCTCCTGGGATCTGTGGGGAGCTGGGGAGCC
CGCAGCGGCCCCGGAGCCGGAGCTGGCGAGCCGAGCGGAGACCTGTGCGCCGCGCCTCTGAGGCGCAGCATGTGAA
GCGGAGACGGCATCCAGTGGGGGGCGAGCCTCTCAGCCGGCCGGGATGGCTACCACGGCCGAGCTCTTCGAGGAG
CCTTTTGTGGCAGATGAATATATTGAACGTCTTGTATGGAGAACCCAGGAGGAGGCTCTAGAGGTGGACCTGAA
GCTTTTGTATCCTAAAAGATTATTAGAAGAATTTGTAAATCATATTCAGGAACCTCAGATAATGGATGAAAGGATT
CAGAGGAAAGTAGAGAACTAGAGCAACAATGTCAGAAAGAAGCCAAGGAATTTGCCAAGAAGGTACAAGAGCTG
CAGAAAAGCAATCAGGTTGCCTTCCAACATTTCCAAGAACTAGATGAGCACATTAGCTATGTAGCAACTAAAGTC
TGTCACCTTGGAGACCAGTTAGAGGGGGTAAACACACCCAGACAACGGGCAGTGGAGGCTCAGAAATTGATGAAA
TACTTTAATGAGTTTCTAGATGGAGAATTGAAATCTGATGTTTTTACAAATCTGAAAAGATAAAGGAAGCAGCA
GACATCATTGAGAAGTTGCACCTAATTGCCCAAGAGTTACCTTTTGATAGATTTTCAGAAGTTAAATCCAAAATT
GCAAGTAAATACCATGATTTAGAATGCCAGCTGATTCAGGAGTTTACCAGTGCTCAAAGAAGAGGTGAAATCTCC
AGAATGAGAGAAGTAGCAGCAGTTTTACTTCATTTTAAAGGGTTATTTCCATTGTGTTGATGTTTATATAAAGCAG
TGCCAGGAGGGTGCTTATTTGAGAAATGATATATTTGAAGACGCTGGAATACTCTGTCAAAGAGTGAACAAAACAA
GTTGGAGATATCTTCAGTAATCCAGAAACAGTCCTGGCTAAACTTATTCAAATGTATTTGAAATCAAACCTACAG
AGTTTTGTGAAAGAGCAGTTAGAAGAATGTAGGAAGTCCGATGCAGAGCAATATCTCAAAAATCTCTATGATCTG
TATACAAGAACCACCAATCTTTCCAGCAAGCTGATGGAGTTTAAATTTAGGTACTGATAAACAGACTTTCTTGTCT
AAGCTTATCAAATCCATTTTCTATTTGAGAGAACTATATTGAGGTGGAGACTGGATATTTGAAAAGCAGA
AGTGCTATGATCCTACAGCGCTATTATGATTCGAAAAACCATCAAAGAGATCCATTGGCACAGGAGGTATTCAA
GATTTGAAGGAAAGAATTAGACAGCGTACCAACTTACCCTTGGGCCAAGTATCGATACTCATGGGGAGACTTTT
CTATCCCAAGAAGTGGTGGTTAATCTTTTACAAGAAAACCAAACAAGCCTTTGAAAGATGTCATAGGCTCTCTGAT
CCTTCTGACTTACCAAGGAATGCCTTCAGAATTTTTTACCATTCTTGTGGAATTTTTTAIGTATTGAGCATATTGAT
TATGCTTTGGAAACAGGACTTGCTGGAATTCCCTCTTCAGATTCTAGGAATGCAAATCTTTATTTTTTGGACGTT
GTGCAACAGGCCAATACTATTTTTTCTCTTTTTTGACAAAACAGTTTAAATGATCACCTTATGCCACTAATAAGCTCT
TCTCCTAAGTTATCTGAATGCCTTCAGAAGAAAAAAGAAATAATTGAACAAATGGAGATGAAATTGGATACTGGC
ATTGATAGGACATTAAATTGTATGATTGGACAGATGAAGCATATTTTGGCTGCAGAACAGAAGAAAACAGATTTT
AAGCCAGAAGATGAAAACAATGTTTTGATTCAATATACTAATGCCTGTGTAAAGTCTGTGCTTACGTAAGAAAA
CAAGTGGAGAAGATTAAAAATTCCATGGATGGGAAGAATGTGGATACAGTTTTGATGGAACCTGGAGTACGTTTT
CATCGACTTATCTATGAGCATCTTCAACAATATTCTTACAGTTGTATGGGTGGCATGTTGGCCATTTGTGATGTA
GCCGAATATAGGAAGTGTGCCAAAGACTTCAAGATTCCAATGGTATTACATCTTTTTGATACTCTGCATGCTCTT
TGCAATCTTCTGGTAGTTGCCCCAGATAATTTAAAGCAAGTCTGCTCAGGAGAACAACCTTGCTAATCTGGACAAG
AATATACTTCACTCCTTCGTACAACCTTCGTGCTGATTATAGATCTGCCCGCCTTGCTCGACACTTCAGCTGAGAT
TGAATTTACAAAGGAATT

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FIGURE 1240

MATTAELEEFVVADEYIERLVWRTPGGGSRGGPEAFDPKRLLEEFVNHIEQLQIMDERIQRKVEKLEQQCQKEA
KEFAKKVQELQKSNQVAFQHFQELDEHISYVATKVCHLGDQLEGVNTPRQRAVEAQKLMKYFNEFLDGELEKSDVF
TNSEKIKEAADIIQKLHLIAQELPFDRFSEVKSIAISKYHDLECQLIQEFTSAQRRGEISRMREVA AVLHFKGY
SHCVDVYIKQCQEGAYLRNDIFEDAGILCQRVNKQVGDIFSNPETVLAKLIQNVFEIKLQSFVKEQLEECRKSDA
EQYLKNLYDLYTRTTNLSSKLMEFNLGTDKQTFLSKLIKSIFISYLENYIEVETGYLKSRSAMILQRYYDSKNHQ
KRSIGTGGIQDLKERIRQRTNLPLGPSIDTHGETFLSQEVVNLLQETKQAFERCHRLSDPSDLPRNAFRIFTIL
VEFLCIEHIDYALETGLAGIPSSDSRNANLYFLDVVQQANTIFHLFDKQFNDHLMPLISSPKLSECLQKKKEII
EQMEMKLDTGIDRTLNCMIGQMKHILAAEQKKTDFKPEDENNVLIQYTNACVKVCAYVRKQVEKIKNSMDGKNVD
TVLMELGVRFRHRLIYEHLLQQYSYSCMGGMLAICDVAEYRKCAKDFKIPMVLHLFDTLHALCNLLVVAPDNLKQVC
SGEQLANLDKNILHSFVQLRADYRSARLARHFS

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FIGURE 1241

GGATGAAAACATCCCCAGCATGGAGATGTGTGACCAGAGACACAATATCACCATGTGCCCCGCTTTGCGACAAGAC
CTGCAGCTACTGGAAGATGAGCTCAGCCTGCGCCACGGCCCGCGCCAGCCACCTCTTCGACAACCCCGCCACGGT
CTTCTTCTCTGTCTTCATGGCCCTCTGGGCTGCCACCTTCATGGAGCACTGGAAGCGGAAACAGATGCGACTCAA
CTACCGCTGGGACCTCACGGGCTTTGAAGAGGAAGAGGAGGCTGTCAAGGATCATCCTAGAGCTGAATACGAAGC
CAGAGTCTTGGAGAAGTCTCTGAAGAAAGAGTCCAGAAACAAAGAGACTGACAAAGTGAAGCTGACATGGAGAGA
TCGGTTCCCAGCCTACCTCACTAACTTGGTCTCCATCATCTTCATGATTGCAGTGACGTTTGCCATCGTCTCGG
CGTCATCATCTACAGGATCTCCATGGCCGCCGCTTGGCCATGAACCTCTCCCCCTCCGTGCGGTCCAACATCCG
GGTCACAGTCACAGCCACCGCGTTCATCATCAACCTAGTGGTTCATCATCTCTGGACGAGGTGTATGGCTGCAT
AGCCCGATGGCTCACCAAGATCGAGGTCCCAAAGACGGAGAAAAGCTTTGAGGAGAGGCTGATCTTCAAGGCTTT
CCTGCTGAAGTTTGTGAATTCCTACACCCCATCTTTTACGTGGCGTTCTTCAAAGGCCGGTTTGTGGACGCC
GGGCGACTACGTGTACATTTTCCGTTCTTCCGAATGGAAGAGTGTGCGCCAGGGGGCTGCCTGATGGAGCTATG
CATCCAGCTCAGCATCATCATGCTGGGGAAACAGCTGATCCAGAACAACCTGTTGAGATCGGCATCCCGAAGAT
GAAGAAGCTCATCCGCTACCTGAAGCTGAAGCAGCAGAGCCCCCTGACCACGAGGAGTGTGTGAAGAGGAAACA
GCGGTACGAGGTGGATTACAACCTGGAGCCCTTCGCGGGCCTCACCCAGAGTACATGGAAATGATCATCCAGTT
TGGCTTCGTACCCCTGTTTGTGCTCTCTTCCCCCTGGCCCCACTGTTTGCCTGCTGAACAACATCATCGAGAT
CCGCTGGACGCCAAAAGTTTGTCACTGAGCTCCGAAGGCCGGTAGCTGTGAGAGCCAAAGACATCGGAATCTG
GTACAATATCTCAGAGGCATTGGGAAGCTTGTGTCTCATCATCAATGCCTTCGTGATCTCCTTCACGTCTGACTT
CATCCCGCGCTGGTGTACCTCTACATGTACAGTAAGAACGGGACCATGCACGGCTTCGTCAACCACACCCTCTC
CTCCTTCAACGTCACTGACTTCCAGAACGGCACGGCCCCCAATGACCCCTGGACCTGGGCTACGAGGTGCAGAT
CTGCAGGTATAAAGACTACCGAGAGCCCGGTGGTTCGGAACCAAGTACGACATCTCCAAGGACTTCTGGGCCGT
CCTGGCAGCCCGGCTGGCGTTTGTCTCTTCCAGAACCTGGTTCATGTTTCATGAGCGACTTTGTGGACTGGGT
CATCCCGGACATCCCCAAGGACATCAGCCAGCAGATCCACAAGGAGAAGGTGCTCATGGTGGAGCTGTTTCATGCG
GGAGGAGCAAGACAAGCAGCAGCTGCTGGAAACCTGGATGGAGAAGGAGCGGCAGAAGGACGAGCCGCCGTGCAA
CCACCACAACACCAAAGCCTGCCCAGACAGCCTCGGCAGCCAGCCCCAGCCATGCCTACCACGGGGGCGTCTCT
GTAGCTATGCCAGCGGGGCTGGGCAGGCCAGCCGGGCATCCTGACCGATGGGCACCCTCTCCCAGGGCAGGCGGC
TTCCCGCTCCCACCAGGGCCCGGTGGGTCTTGGGTTTTCTGCAAACATGGAGGACCCTTTCTGATAGGACATTT
TCCTTTCTTCTTTCTGTTTTCTTTCCCTTGTTTTTGACAAAGCCATTATGCAGGGAATATTTTTTAATCTGTAG
TATTCAAGATGAATCAAAATGATGGCTGGTAATACGGCAATAAGGTAGCAAAGGCAGGTGCTTTGCAGAAAGAAT
GCTTGGAAACTTGAGTCTCCCTAGAGGTGAAAAGTGAGCAGAGGCCCTAGAAACCCTCCTCTGAATCCTCTAA
TTCCTTAAGATAGATGCAAAATGGTAAGCCGAGGCATCGCGCAAAAGCTGGTGCATGCTTCAGGGAAAATGGAA
AACCACGCAAGAATAATGATTGATTCCGGTTCCAAAAGGTGTCACCTACCTGTTTCAGAAAAGTTAGACTTTCC
ATCGCCTTTTCTTCCATCAGTTGAGTGGCTGAGAGAGAAGTGCTCATCCCTGAGCCACACAGGGGGCGTGGGA
GCATCCCAGTTATCCCTGGAAAGCTAGAAGGGGACAGAGGTGTCCTGATTAAGCAGGAAACAGCACCTTGGCG
TCCCAGCAGGCTCCCCACTGTGAGCCACACACCTGCCCCCATCACCAAGCCGACCTCAGAGTTGTTTCATCTT
CCTTATGGGACAAAACCGGTTGACCAGAAAATGGGCAGAGAGAGATGACCTCGGAAGCATTTCACAGATGGTGT
CAGGGTTTCAAGAAGTCTTAGGGCTTCCAGGGGTCCCCTGGAAGCTTTAGAATATTTATGGGTTTTTTTTTCAA
TATCAATTATATGGTAGATTGAGGATTTTTTTCTGTAGCTCAAAGGTGGAGGGAGTTTATTAGTTAACCAAATA
TCGTTGAGAGGAATTTAAATACTGTTACTACCAAAGATTTTATTAATAAAGGCTTATATTTTGGTAACACTTC
TCTATATTTTACTCACAGGAATGTCACTGTTGGACAATTATTTTAAAAGTGTATAAAACCAAGTCTCATAAATG
ATATGAGTGATCTAAATTTGCAGCAATGATACTAAACAACCTCTCTGAAATTTCTCAAGCACCAAGAGAAACATCA
TTTTAGCAAAGGCCAGGAGGAAAAATAGAAATAAATTTGTCTTGAAGATCTC

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FIGURE 1242

MEMCDQRHNITMCPLCDKTC SYWKMS SACATARASHLFDNPATVFFSVFMALWAATFMEHWKRKQMRNLNYRWDLT
GFEEEEEEAVKDHPRAEYEARVLEKSLKKESRNKETDKVKLTWRDRFPAYLTNLVSIIFMIAVTFAIVLGVIYRI
SMAAALAMNSSPSVRSNIRVTVTATAVIINLVVIILLDEVYGC IARWLT KIEVPKTEKSFEERLIFKAFLKFN
SYTPIFYVAFFKGRFVGRPGDYVYIFRSFRMEECAPGGCLMELCIQLSIIMLGKQLIQNNLFEIGIPKMKKLIRY
LKLKQQSPPDHEECVKRKQRYEVDYNLEPFAGLTPEYMEMIIQFGFVTLFVASFPLAPLFALLNNIIEIRLDAKK
FVTELRRPVAVRAKDIGIWYNILRGIGKLAVIINAFVISFTSDFIPRLVYLYMYSKNGTMHGFEVNHTLSSFNVS
FQNGTAPNDPLDLGYEVQICRYKDYREPPWSENKYDISKDFWAVLAARLAFVIVFQNLVMFMSDFVDWVIPDIPK
DISQQIHKEKVLMLVELFMREEQDKQQLLETWMEKERQKDEPPCNHHNTKACPD SLGSPAPSHAYHGGVL

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FIGURE 1243

ATATAAAGGCGCCGCGCTCCTTGCCCCCAGGACTCGGCCCCATGGGGACGCCGCCGGCCGCGCTGGCGCATGGC
GGGTAGGAGCTGTGGCGCGGGGCCCTTCCAGGAGTCTGAGCTATGAGTGGCCCCCTGTGGAGAGAAGCCTGTCCTGG
AAGCCAGCCCCACCATGAGTCTGTGGGAATTTGAGGACAGCCACAGCCGTCAGGGCACCCCAAGGCCGGGTCAAG
AGCTGGCCGCTGAGGAGGCCTCGGCCCTGGAAGTGCAGATGAAGGTGGACTTCTTCCGGAAGCTGGGCTATTTCAT
CCACGGAGATCCACAGCGTCTGTCAGAAGCTGGGCGTCCAGGCAGACACCAACACGGTGCTGGGTGAGCTGGTGA
AACACGGGACAGCCACCGAGCGGGAGCGCCAGACCTCACCGGACCCCTGCCCTCAGCTCCCTCTAGTCCCGCGGG
GTGGTGGCACCCCTAAGGCTCCCAACCTGGAGCCTCCACTCCCAGAAGAGGAAAAGGAGGGCAGCGACCTGAGAC
CAGTGGTCATCGATGGGAGCAACGTGGCCATGAGCCATGGGAACAAGGAGGTCTTCTCCTGCCGGGGCATCCTGC
TGGCAGTGAAGTGGTTTCTGGAGCGGGGCCACACAGACATCACAGTGTGGTGTGCCATCCTGGAGGAAGGAGCAGC
CTCGGCCGACGTGCCCATCACAGACCAGCACATCCTGCGGGAACTGGAGAAGAAGAAGATCCTGGTGTTCACAC
CATCACGACGCTGGGTGGCAAGCGGGTGGTGTGCTATGACGACAGATTCAATTGTGAAGCTGGCCTACGAGTCTG
ACGGGATCGTGGTTTCCAACGACACATACCGTGACCTCCAAGGCGAGCGGCAGGAGTGGAAGCGCTTCATCGAGG
AGCGGCTGCTCATGTACTCCTTCGTCAATGACAAGTTTATGCCCCCTGATGACCCACTGGGCCGGCACGGGCCCA
GCCTGGACAACCTTCTGCGTAAGAAGCCACTCACTTTGGAGCACAGGAAGCAGCCGTGTCCCTATGGAAGGAAAT
GCACCTATGGGATCAAGTGCCGATTCTTCCACCCAGAGCGGGCAAGCTGCCCCCAGCGCTCTGTGGCAGATGAGC
TCCGTGCCAATGCTCTCCTCTCACCCCCAGAGCCCCAAGCAAGGACAAAAATGGCCGGCGGCCTTCACCTTCAT
CCCAGTCCAGCTCTCTGCTAACAGAGAGTGAGCAGTGCAGCCTGGATGGGAAGAAGCTGGGGGGCCAGGCATCCC
CAGGGTCCCGCCAAGAGGGTCTAACACAGACCTATGCCCCATCAGGCAGGAGCCTCGCACCTAGCGGGGGCAGTG
GCAGCAGCTTTGGGGCCACAGACTGGCTCCACAGACGCTGGACTCACTCCCGTACGTCTCCAGGATTGCCTGG
ACTCGGGCATTGGCTCCCTGGAGAGCCAGATGTGCGAACTTTGGGGGGTTTCGAGGAGGAGGCCCTGGTGAGCCGG
GCCCCCCCCGAGCCCCCTTACACGGGCTACAGTCCCTATGGATCTGAGCTCCCAGCCACCGCAGCCTTCTCTGCCT
TTGGCCGGGCCATGGGTGCTGGCCACTTCAGTGTCCCTGCCGACTACCCACCCGCGCCCCCTGCCTTTCCACCTC
GAGAGTACTGGTCTGAACCATACCCACTGCCCCCACCACATCAGTCCTTCAGGAGCCCCCAGTGCGAGAGCCAG
GGGCTGGCAGGAGCCCGTGGGGCAGGGCAGACAGCCTGGCCAAGGAGCAGGCCAGCGTGATACTAAGCTGTGTG
GTGTGTTTTCCCCCGCACCTGGTGGAGGCTGTGATGGGGCGCTTCCACAGCTCCTGGACCCCCAGCAGCTGGCTG
CCGAGATCCTCTCCTACAAGTCCCAGCACCCCAAGTGAGTAAGCTGCCTGTGGCTGGCAAGGGCAGCACCCCCAGC
CTCCAAGGGCCGTCAGGCTGGGCTTTGGGCCATTGAGCAGCCCATTCAGCCCTGAGGCCCCACCCAGAGGCTG
GACAGAGGGAGGATTCAAGTCGGGAAGGAAACCCACAAACCAAGATACTGTAGGATTGGTTCTGGCCCATGCAG
CACCTCTAGCTGTCTGCCTCAGTGGGTGAGAAGCGATCACCTGTTGATACACATTGTATCTCTGTAGTTTAAGG
AGACGCTGCCGGTAACGGCGTCGGTCCGTGGCTGAGGCCCAACCGTCTTTCTCTCAGAGGGTGGGGAGGGAGG
TGGGGGCAGCAGAGCCCTGGGCTGGGTGCCCTGTGCACGCCACCCCACTTCCGCCCTACCCCTGGGACGTTGGCC
TTGGCTGGCTAGTTGGGCACCGTGTGCCTGCCCTCCAAGGGCCTCCTCTACGCCAATGAGGCCTCATCTGTGCTC
TCGCTGGGCACGTGGCTTCATGTGAGTAAGCAAGATGCTTCTTAATAACCCACCTTCTGCCCCACTCTATTCTT
ATCTCGCCCTTCCCCATGGGTGGGGGAACCTGTGTTTGTGTGTGCACATGTAAATTTAAATATTTTAAGCAG
AAAGTCCTTACCTCCTGTAAACACATCAATAAAGTACAATCATTGTGAGCCCTTTCAAAAAAAAAAAAAAAAAA

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FIGURE 1244

MSGPCGEKPVLEASPTMSLWEFEDSHSRQGTTPRGQELAAEEASALELQMKVDFFRKLGYSSTEIHSVLQKLGVO
ADTNTVLGELVKHGTATERERQTS PDPCPQLPLVPRGGGTPKAPNLEPPLPEEEKEGSDLRPVVIDGSNVAMSHG
NKEVFSCRGILLAVNWFLERGHTDITVFVPSWRKEQPRPDVPITDQHILRELEKKKILVFTPSRRVGGKRVCYD
DRFIVKLAYESDGIVVSNDTYRDLQGERQEWKRFIEERLLMYSFVNDKFMPPDDPLGRHGPSLDNFLRKKPLTLE
HRKQPCPYGRKCTYGIKCRFFHPERPSCPQRSVADELARANALLSPPRAPSKDKNGRRPSPSSQSSSLLTESEQCS
LDGKKLGAQASPGSRQEGLTQTYAPSGRSLAPSGGSGSSFGPTDWLPQTLDSL PYVSQDCLD SGIGSLESQMSEL
WGVRRGGPGEPGPPRAPYTGYS PYGSELPATAAFSAFGRAMGAGHFSVPADYPPAPPAFFPPREYWSEPYPLPPT
SVLQEPPVQSPGAGRSPWGRADSLAKEQASVYTKLCGVFPFPHLVEAVMGRFPQLLDPQQLAAEILSYKSQHPSE

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FIGURE 1245

CTTACTGCTTTGTGAGGTTGTGAGTGGCCACCACTGAAGGTCTTTGAGAAGAGGCCAGACGCTGCTGTAGCCAGG
CCTGTCTTAAGAGGACTTGTGCTTCCAGGGACCCAGGCAGGATGATGGCGCAGCTCTTCCTACTCCAAGCCAACG
CTGTCTTCCCTTTTCCCATGAAATCAAGGTCAAGAGGCCAAATAAGACTCCCTGCTCCACTCTACCCCCAGAGA
GAAATGATTCTCGCTCCTTTTCAGATCCCCCAGGATCTGAGGGAGAAAGGATGGGAGGAGGGGCAGCAGCATTTCG
CTGGAAGGCAGCAGATGCTTTTCCAGCCCCGGTTCAGCTGGAAGGCTTGGAGGCCGGCCAGACCACTCTGGCGT
CTCCTGAAGTGGGTCCCTGGAGACCGAAGAGGCTCAGTGGAGTCTGTCTGTTGTGTCAGCACTGCTGCCTGATCCCT
GCAAGACAAATGGCACTTTTCTTCTTCAGAAGCATCATCTGCCTTCATTATTAGCAGTAATATTATTCCAGTTA
TTATTCTTACCGGTGCCAGTTTTGCACATCTTTTTGTTGCTCTATTTGTGTCTCATTTACTTCTCAAATTGCCCC
TGGGGGCAGGAATGAGGATGCAGAGAGATGCACGTTAATTACTGTGCGATTTTTCTGTGGAGAAAACCTGAGGCCA
GGGCTGAACGCTCACAGCTAAGGAGCTGTGATTACAGACCCAGTTCTGTGAGCTCTAGAGGCACCCCTGCATCATGC
CCACCAGGGTGATCCCCCTGGGATGGACCATCTCGGGATATGAGGCCTCGGAGGCTGGGGTTGAGATTGTTGTCCT
GAAGAGCTTATAGCCAGATTGCCACATTCAAGTGTAAGTCCAGGAAAGGGGCAGGCGGCAGTGCACAGGGATTTA
TCAGTTCCAGAACCTCACAGTGATAAGAGGCTTTAGAGAGCATCTAATCGAGACCTTTAATTTTTTCGGGGAGAGC
AGCTGAGGCCGTGTGGAATAATTAGTGGAGAGCTGACAAGTGTCTGGGCTCCTGGCCCAGGGGTCCGTGGTCCAGC
ACGTTGTGCGTTCAAGTGGGAAGCAAAGGGCTTGCCCGGATTACCTGCCCCAGCCCCGAGGTGGGTGTGCTCCC
TGCAGCTGCCATCGGCCCGCTTTGCTTCGTCTGGCAGATGCCAGTGATTGTCCCCGAGCAAGTGCCAGGGTTG
GGCTGAGCTGCTATGACAGGGAGGCCAGGGAGTTCTGCTCAGGGAGCCAAAGGGAACAGCCAGATCCTGAATGT
TCTATGTTACCTGCCCCAGCCCCACCCACCTGGCCACTCCACAGGCCCTGACCATGGTCACTCACGGAGAG
GGATGGAGGAGAAGGTGGTTGAACTGAGTACTGAGAACCAGAGGACAGAGCCACAGCTTCCAAGCAGGAAAAG
GGACCTCTCTGAAAAATCTGGATAACCAGAATTATCACAGCACCTTCTCATTCCCAGCGCTCCTTCTGAGCTCA
GACCTTGAGCATTACTGAGGTTTCTTTTTGAGGAAGAGGGAAAGTGACAAAGGACAAAAACAATGCAAATCTTCAT
GACTGAAGACGATCAAAGACTCCCTGGAGCGAGAAAACAGTTACTGCCAGAAGCAGAATGGAAGAGCCAAAAAGT
ACACAAAATGGACGCCATAAATCTGAAATAAAAGTGTATGATGTGTTCTGAGTCACTGTAGAAGTCATGCATTI
ATTATCAAGATAGAAAAGAGCAGAGAATGACGTGGACATTGGTCTCTCGGAGAGGCTGCATAGGTGGTGCAGTCCC
CGGGGATTCTGGATGCTGGTCTTTTGACCGTGGCGGCAGCCTCGCGCCTGCCCGGATGGCTCCATCCAGACATT
GGCAAGGCTGTCACTGCTCTTGGGTCCCTTTTTCAAGCTGATTTCTGCTCCCAAGAGGAGTTTGAGCCCC
ATTCTGCCCTTGAAATAAATCTGACAGATGTGCACAGCATATTTGCAGGGAATTTGCAGGCCTCGATTATTGGG
GGAATCAGAGCCCATTCACACCGAGCCCCATCCACGTGGCTGAGCAACACCCCTGTGTCCCTGTATCTGTCTC
ACTGGCTGTCTTTCTGCCAGTTTCTTAAAGAACCACACCATTACTGCGTTTGCCGTTTGAAGCGTTGTCCCAACA
ATGCAGATGGTTCTGACAAGGGCTCTATATGCTGGCAGAAGGGAGCTTCCAACCTTTTAAGTTGAGGAAAATGAA
TCTCTGAGAGGCTTGAGAGTGTGCCAGGTGGAGCTTTTCAGGAGACAGGGGTCTTGAGCCAGGACAATACT
ATCGAGTTTTCACTAGGAGACTTAGTGGTGGCTTTTCATGAGGCCAGTCGTTCTCAAGGAAGGGCTGGGGGCCATC
AGCAATGTCTGGAGACATTTTGTATTCTCACAGCTTGGTGGGACTGCTATTGGTATCTCATGGGTGGAGGCCAG
GGATGCCACCGAACATCCTACAATGCACAGGGCAGCCCCCACAATAAGAATTATCCAGCCCCAAAATGCCAAT
AGTGGCGAGGTCAGGGGACCCTGTGCTGGCCATCCTATCTCTGATTCTGAACTATGCATGCTTTCCACTTTTCC
CCATTTGTGAGTCATTGAGTAAATTAAAGCTCTTCTGAGCAGCAGCAGTGATCATGGTCACTGCCCTGAGTTCAA
ATAATGCGAGCTGAGGACAGTGATCTGCAACTCCCAGCATGTATGTGGTCTCTTAGAAATCCATGTGACTGTTT
CCACCATCTTGGGCATTTGTGGGGACCCCCAGACTGGAGGGAGAAAGCCCTACAAAGTGATGGGAGTGTGGGGC
TGAACTTTTCCCTACCCTTAACCTTGTGTCTCTGGGACCTCCAGGGACCTGGCCCCCTACCAATGCATATGAAGA
GTATGCTTGGGGAAGAGCTTAGGAATGGGGTGGGCATGGGACTGCTGGGTAGCAGCCTTTGAGCAAATCTGCATC
TTCTCTTATTTCTGACCTTTTCCACGTGCCAGTCTATTTCTGCCAGTTGAAGGCATACTAATATTCTTTATA
CTATTTAATCTTTTGCAGAAACCTTACTATTATAACTTGCTACTCTCCAGATACCAATTCTTCATGCCGAGAGCA
TCGGAAATGTTTTGTGTCTTACTGATGTTTTTCATGATCAACTTGTAATGTAAGCAGTTGACTTCATAAAAGGT
ATTTTAACTATTCTTGGAGTCTTTGCTACCCAAGCACCTGGTTTTACCATGCGATCACTGACTTCTCTACAGTG
AAGACTCTTTCTTAATATAGGATTCGCTGTGCTCTTTTGATTAAAAATATCTAACCTTAAAAGACGTAAAAATG
TATCTGTGAAATCTCACTTTGTTAGCGTTGCTGCTGTTGTCAATTTCTATTATGATAACTGAAAAGAGAAAAGAA
GAAAACATGAAAAAAAAAAAAAAAAAAAA

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FIGURE 1246

MMAQLFLLQANAVLPLSHEIKVKRQIRLPAPLYPPERNDSSRFQIPQDLREKGWEEGQQHFAGKAADAFPAPVQL
EGLEAGQTTLASPEVGPWRPKRLSGVCLLSALLPDPCKTNGTFLLQKHLP SLLAVILFPVIILT GASFAHLFVA
LFVSHLLLKLPLGAGMRMQRDAR

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FIGURE 1247

GACTTTTCCACACACTGGATTGTGAGGCTCTTCTTAAAAGTATAATGGCATCTTGGAATCCTATAAGCAGTCT
TTATGTCTCTTAACATTACACCTACTTTTTTAAAAACAAATATTACTATTTTTATTATTGTTTGTCCTTTAT
AAATTTTCTTAAAGATTAAGAAAATTTAAGACCCCATGAGTTACTGTAATGCAATTCAACTTTGAGTTATCTTT
TAAATATGTCTTGTATAGTTCATATTCATGGCTGAAACTTGACCACACTATTGCTGATTGTATGGTTTTACCTG
GACACCGTGTAGAATGCTTGATTACTTGTACTCTTCTTATGCTAATATGCTCTGGGCTGGAGAAATGAAATCCTC
AAGCCATCAGGATTTGCTATTTAAGTGGCTTGACAACCTGGGCCACCAAAGAACTTGAACCTCACCTTTAGGATT
TGAGCTGTTCTGGAACACATTGCTGCACCTTGGAAGTCAAATCAAGTGCCAGTGGCGCCCTTCCATAGAGAA
TTTGCCAGCTTTGCTTTAAAAGATGTCTTGTTTTTTATATACACATTAACAATAGGTCCAATCTGCTCTCAAGG
CCTTGGTCCTGGTGGGATTCCTTCACCAATTACTTTAATTAAAAATGGCTGCAACTGTAAGAACCCTTGTCTGAT
ATATTTGCAACTATGCTCCCATTTACAAATGTACCTTCTAATGCTCAGTTGCCAGGTCCAATGCAAAGGTGGCG
TGGACTCCCTTTGTGTGGGTGGGGTTTGTGGGTAGTGGTGAAGGACCGATATCAGAAAAATGCCTTCAAGTGTAC
TAATTTATTAATAAACATTAGGTGTTTGTAAAAA

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FIGURE 1248

MQFNFELSFKYVLYSSYSWLKLDHTIADCMVFTWTPCRMLDYLYSSYANMLWAGEMKSSSHQDLLFKWLDNWATK
ELELHLLGFELFWNTLLHFGKSKSSASGALSIENTLPSFALKDVLFFIYT

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FIGURE 1249

CTGGTCTCCCGCGTCCATCGGTCCATTCCCTGCGTCGTTCTGTCCTTCCGAACGCACACTTCAGGAGCAGCCGCGA
GGGTGGCATGGCAGCGAGCACAGACATGGCTGGGCTGGAGGAGAGCTTCCGCAAGTTTGCCATCCATGGTGACCC
CAAGGCCAGTGGGCAAGAGATGAATGGCAAGAACTGGGCCAAGCTGTGCAAGGACTGCAAGGTGGCTGACGGAAA
GTCCGTGACAGGGACCGATGTGGACATCGTCTTCTCCAAAGTCAAGGGGAAGTCTGCTCGGGTCATCAACTATGA
GGAGTTCAAGAAGGCCCTGGAAGAGCTGGCGACCAAGAGATTCCAGGGCAAGAGCAAGGAGGAGGCCTTCGATGC
CATCTGCCAGCTGGTGGCAGGCAAAGAGCCAGCCAATGTGGGCGTCACTAAAGCAAAAACAGGGGGTGCTGTAGA
CCGGCTGACGGACACCAGCAGATACACGGGCTCCCACAAGGAGCGCTTCGATGAGAGCGGCAAGGGCAAGGGCAT
TGCGGGACGGCAGGACATCCTGGACGACAGTGGCTACGTGAGCGCCTACAAGAATGCAGGCACCTACGATGCCAA
GGTGAAGAAGTGAGGGCTTGGAAGACCGCCCTGCCAAGTGC GGCTGCCCCTGCCAGAGGCTCAGGCCTGGGTCTA
AGGGGCACGTGGAGCAAGAGATCCTGGTCCCCTCCCTGCTGGACCTGCCACCCAGAGCTTCCTGCCTAGTCCAC
TGGGCTGGCCACCAGGCCTCTGACCCAGGCTGCTCTGCGGGCCCTTCCTCCTCCTCTCCTGCTCCAACCTTCTG
TCCACCTGGGGACAGTCTGTGCCTGTAGCCTCATGACCCCAACCCAGCCAGGCATGGCTAACCCCTGACTGCTT
GCCTCATATTTAAGCTGCTGCTCTGGCCAAGTGCCTAATTTTAACCCAGACCTCAATAAAGACACCTTTTGTACC
AAAA

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FIGURE 1250

MAASTDMAGLEESFRKF¹AIHGDPKASGQEMNGKNWAKLCKDCKVADGKSVTGTDVDIVFSKVKGKSARVINYE²EF
KKALEELATKRFQ³GKSKEEAFDAICQLVAGKEPANVGVT⁴KAKTGGAVDRLTDT⁵SRYTGSHKERFDESGKGKGIAG
RQDILDDSGYVSAYKNAGTYDAKVKK

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FIGURE 1251

GGCGCTCGCAGAGCCGGAAAGAAGTGCTGTAAGGGACGCTCGGGGGACGCTGTTCTTGAGGTGTCGCCGCCTCCC
TGTCTCTCGCCCTCCGCGGTGGGGGAGAAACCCAGGAGCGAAGCCCAGAGCCCGCGGCGCGGCCGGCGGACGAACG
AGCGCGCAGCAGCCGGTGCGCGGCCGCGGGCAGGGCGGGGGAAGAAAAACACCCTGTTTTCTCTCCGGCCCCCAC
CGCGGATCATGTACCAGGATTATCCCGGGAACCTTTGACACCTCGTCCCGGGGCAGCAGCGGCTCTCTGCGCACG
CCGAGTCTTACTCCAGCGGCGGCGGCCAGCAGAAATTCCGGGTAGATATGCCTGGCTCAGGCAGTGCAATTCA
TCCCCACCATCAACGCCATCACGACCAGCCAGGACCTGCAGTGGATGGTGCAGCCACAGTGATCACCTCCATGT
CCAACCCATACCCTCGCTCGCACCCCTACAGCCCCCTGCCGGGCTGGCCTCTGTCCCTGGACACATGGCCCTCC
CAAGACCTGGCGTGATCAAGACCATTGGCACCACTGGGCCGAGGAGGAGAGATGAGCAGCTGTCTCTCTGAAG
AGGAGGAGAAGCGTCGCATCCGGCGGGAGAGGAACAAGCTGGCTGCAGCCAAGTGCCGAACCGACGCCGGGAGC
TGACAGAGAAGCTGCAGGCGGAGACAGAGGAGCTGGAGGAGGAGAAGTCAGGCCTGCAGAAGGAGATTGCTGAGC
TGCAGAAGGAGAAGGAGAAGCTGGAGTTTCATGTTGGTGGCTCACGGCCCAGTGTGCAAGATTAGCCCCGAGGAGC
GCCGATCGCCCCCAGCCCTGGGCTGCAGCCCATGCGCAGTGGGGGTGGCTCGGTGGGCGCTGTAGTGGTGAAAC
AGGAGCCCCCTGGAAGAGGACAGCCCTCGTCCTCGTCGGCGGGGCTGGACAAGGCCCAGCGCTCTGTCAATCAAGC
CCATCAGCATTGCTGGGGGCTTCTACGGTGAGGAGCCCTGCACACCCCCATCGTGGTGACCTCCACACCTGCTG
TCACTCCGGGCACCTCGAACCTCGTCTTCACCTATCCTAGCGTCTTGAGCAGGAGTCACCCGCATCTCCCTCCG
AATCCTGCTCCAAGGCTCACCGCAGAAGCAGTAGCAGCGGGACCAATCATCAGACTCCTTGAATCCCCCACTC
TGCTGGCTCTGTAACCCAGTGACCTCCCTCCCCAGCTCCGGAGGGGGTCCTCCTCGCTCCTCCTTCCAGGGAC
CAGCACCTTCAAGCGCTCCAGGGCCGTGAGGGCAAGAGGGGGACCTGCCACCAGGGAGCTTCCCTGGCTCTGGGGG
ACCCAGGTGGGACTTAGCAGTGAGTATTGGAAGACTTGGGTTGATCTCTTAGAAGCCATGGGACCTCCTCCCTCA
TTCATCTTGCAAGCAAATCCCATTTCTTGAAAAGCCTTGAGAACTCGGTTTGGTAGACTTGGACATCTCTCTGG
CTTCTGAAGAGCCTGAAGCTGGCCTGGACCATTCTGTCCCTTTGTTACCATACTGTCTCTGGAGTGATGGTGTCT
CTTCCCTGCCCCACCACGCATGCTCAGTGCCTTTTGGTTTACCTTCCCTCGACTTGACCCCTTCTCCCCCAGC
GTCAGTTTCACTCCCTCTTGGTTTTTATCAAATTTGCCATGACATTTTCATCTGGGTGGTCTGAATATTAAAGCTC
TTCATTTCTGGAAA

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FIGURE 1252

MYQDYPGNFDTSSRGSSGSPAHAESYSSGGGGQQKFRVDMPGSGSAFIPTINAITTSQDLQWMVQPTVITSM SNP
YPRSHPYSPPLPGLASVPGHMALPRPGVIKTIGTTVGRRRRDEQLSPEEEKRRIRRRERNKLAAAKCRNRRRELTE
KLQAETEELEEEKSGLQKEIAELQKEKEKLEFMLVAHGPVCKISPEERRSPAPGLQPMRSGGGSVGAVVVKQEP
LEEDSPSSSSAGLDKAQRSVIKPI SIAGGFYGEEPLHTPIVVTSTPAVTPGTSNLVFTYPSVLEQESPASP SESC
SKAHRSSSSGDQSSDSLNSPTLLAL

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FIGURE 1253

TAGTTATTAAAGTTCCTATGCAGCTCCGCTCCGTCCGGCCTCATTTCCTCAAAAAATCCCTGCTTTCCCCGCTC
GCCACGCCCTCCTGCTACCCGGCTTTAAAGCTAGTGAGGCACAGCCTGCGGGGAACGTAGCTAGCTGCAAGCAGA
GGCCGGCATGACCACCGAGCAGCGACGCAGCCTGCAAGCCTTCCAGGATTATATCCGGAAGACCCTGGACCCTAC
CTACATCCTGAGCTACATGGCCCCCTGGTTTAGGGAGGAAGAGGTGCAGTATATTAGGCTGAGAAAAACAACAA
GGGCCCAATGGAGGCTGCCACACTTTTTCTCAAGTTCCTGTTGGAGCTCCAGGAGGAAGGCTGGTTCCGTGGCTT
TTTGGATGCCCTAGACCATGCAGGTTATTCTGGACTTTATGAAGCCATTGAAAGTTGGGATTTCAAAAAAATTGA
AAAGTTGGAGGAGTATAGATTACTTTTAAACGTTTACAACCAGAATTTAAACCAGAATTATCCCAACCGATAT
CATTTCTGATCTGTCTGAATGTTTAAATTAATCAGGAATGTGAAGAAATTCTACAGATTTGCTCTACTAAGGGGAT
GATGGCAGGTGCAGAGAAATTGGTGGAATGCCTTCTCAGATCAGACAAGGAAAACCTGGCCCCAAAACCTTTGAACT
TGCTTTGGAGAAAGAAAGGAACAAGTTCAGTGAAGTGTGGATTGTAGAGAAAGGTATAAAAGATGTTGAAACAGA
AGATCTTGAGGATAAGATGGAACCTTCTGACATACAGATTTTCTACCAAGAAGATCCAGAATGCCAGAATCTTAG
TGAGAATTCATGTCCACCTTCAGAAAGTGTCTGATACAACTTGTACAGCCCATTAAACCAAGAAATTACCAATT
AGAGCTTGCTTTGCCTGCTATGAAAGGAAAAACACAATAATATGTGCTCCTACAGGTTGTGGAAAAACCTTTGT
TTCAGTCTTATATGTGAACATCATCTTAAAAAATTTCCACAAGGACAAAAGGGGAAAGTTGTCTTTTTTGCGAA
TCAGATCCAGTGTATGAACAGCAGAAATCTGTATTCTCAAATACTTTGAAAGACATGGGTATAGAGTTACAGG
CATTTCTGGAGCAACAGCTGAGAATGTCCAGTGGAAACAGATTGTTGAGAACAATGACATCATCTTTAACTCC
ACAGATTCTTGTGAACAACCTTAAAAAGGGAACGATTCCATCACTATCCATCTTTACTTTGATGATATTTGATGA
ATGCCACAACACTAGTAAACAACACCCGTCATAATATGATCATGTTTAATTATCTAGATCAGAACTTGGAGGATC
TTCAGGCCCCTGCCCCAGGTCATTGGGCTGACTGCCTCGGTTGGTGTGGGGATGCCAAAAACACAGATGAAGC
CTTGGATTATATCTGCAAGCTGTGTGCTTCTCTTGATGCGTCAGTGATAGCAACAGTCAAACACAATCTGGAGGA
ACTGGAGCAAGTTGTTTATAAGCCCCAGAAGTTTTTCAGGAAAGTGAATCACGGATTAGCGACAAATTTAAATA
CATCATAGCTCAGCTGATGAGGGACACAGAGAGTCTGGCAAAGAGAATCTGCAAAGACCTCGAAAACTTATCTCA
AATTCAAAATAGGGAATTTGGAACACAGAAATATGAACAATGGATTGTTACAGTTCAGAAAGCATGCATGGTGT
CCAGATGCCAGACAAAGATGAAGAGAGCAGGATTTGTAAAGCCCTGTTTTTATACACTTCACATTTGCGGAAATA
TAATGATGCCCTCATTATCAGTGAGCATGCACGAATGAAAGATGCTCTGGATTACTTGAAAGACTTCTTCAGCAA
TGTCGAGCAGCAGGATTCTGAAGAGATTGAGCAAGATCTTACTCAGAGATTTGAAGAAAAAGCTGCAGGAAC TAGA
AAGTGTTCAGGGATCCAGCAATGAGAATCCTAAACTTGAAGACCTCTGCTTCATCTTACAAGAAGAGTACCA
CTTAAACCCAGAGACAATAACAATTTCTTTTGTGAAAACAGAGCACTTGTGGACGCTTTAAAAAATTGGATTGA
AGGAAATCCTAAACTCAGTTTTCTAAAACCTGGCATATTGACTGGACGTGGCAAAACAAATCAGAACACAGGAAT
GACCCTCCCGGCACAGAAGTGTATATTGGATGCATTCAAAGCCAGTGGAGATCACAATATTCTGATTGCCACCTC
AGTTGCTGATGAAGGCATTGACATTGCACAGTGCAATCTTGTCTATCCTTTATGAGTATGTGGCAATGTCATCAA
AATGATCCAAACCAGAGGCAGAGGAAGAGCAAGAGGTAGCAAGTGCTTCCTTCTGACTAGTAATGCTGGTGTAA
TGAAAAAGAACAATAAACATGTACAAAGAAAAAATGATGAATGACTCTATTTTACGCCTTCAGACATGGGACGA
AGCAGTATTTAGGGAAAAGATTCTGCATATACAGACTCATGAAAAATTCATCAGAGATAGTCAAGAAAAACCAA
ACCTGTCCCTGATAAGGAAAATAAAAACTGCTCTGCAGAAAGTGCAAAGCCTTGGCATGTTACACAGCTGACGT
AAGAGTGATAGAGGAATGCCATTACACTGTGCTTGGAGATGCTTTTAAGGAATGCTTTGTGAGTAGACCACATCC
CAAGCCAAAGCAGTTTTCAAGTTTTGAAAAAAGAGCAAAGATATTCTGTGCCCGACAGAACTGCAGCCATGACTG
GGGAATCCATGTGAAGTACAAGACATTTGAGATTCCAGTTATAAAAAATTGAAAGTTTTGTGGTGGAGGATATTGC
AACTGGAGTTCAGACACTGTACTCGAAGTGAAGGACTTTCATTTTGAGAAGATACCATTTGATCCAGCAGAAAT
GTCCAATGATATCAGGTCCTCAATCTTCAGCTACAGGGAATGAGTAACTTTGAGTGGAGAAGAAACAAACATAG
TGGGTATAATCATGGATCGCTTGTACCCCTGTGAAAATATATTTTTTAAAAATAAAAAAAAAAAAAA

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FIGURE 1254

MTTEQRRSLQAFQDYIRKTLDPITYILSYMAPWFREEEVQYIQAEKNNKGPMEAATLFLKFLELEQEEGWFRGFLD
ALDHAGYSGLYEAIESWDFKKIEKLEEYRLLLKRLQPEFKTRIIPDTIISDLSECLINQEECEILQICSTKGMMMA
GAEKLVECLLRSDKENWPKTLKLALEKERNKFSELWIVEKGIKDVETEDLEDKMETSDIQIFYQEDPECQNLSN
SCPPSEVSDTNLYSPFKPRNYQLELALPAMKGKNTIICAPTGCCKTFVSLICEHHLKKFPQGGQKGVVFFANQI
PVYEQQKSVFSKYFERHGYRVGTGISGATAENVPVEQIVENNDIIILTPQILVNNLKKGTIPSLSIFTLMIFDECH
NTSKQHPYNMIMFNYLDQKLGGSSGPLPQVIGLTASVGVGDAKNTDEALDYICKLCASLDASVIATVKHNLEELE
QVVYKPKQFFRKVESRISDKFKYIIAQLMRDTESLAKRICKDLENLSQIQNREFGTQKYEQWIVTVQKACMVFQM
PDKDEESRICKALFLYTSHLRKYNDALIISEHARMKDALDYLDKDFFSNVRAAGFEEIEQDLTQRFEEKLQELESV
SRDPSNENPKLEDLCFILQEYHLNPETITILFVKTRALVDALKNWIEGNPKLSFLKPGILTGRGKTNQNTGMTL
PAQKCILDAFKASGDHNLIIATSVADEGIDIAQCNLVILYEVGNVIKMIQTRGRGRARGSKCFLLSNAGVIEK
EQINMYKEKMMNDSILRLQTWDEAVFREKILHIQTHEKFIRDSQEKPKVPDPKENKKLLCRKCKALACYTADVRV
IEECHYTVLGDADFKECFVSRPHPKPKQFSSFEEKRAKIFCARQNCSDHWGIHVKYKTFEIPVIKIESFVVEDIATG
VQTLYSKWKDFHFEKIPFDPAEMSK

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FIGURE 1255

GTTTTTTAGGAAGAGTGTCCCGCAGAGACCCGGCGGGAGCTGCCAGGAGCTCTGGGATTCCAGCGGCTGGAAGCC
ACCTGGGAAGCCTGGCCTCAGTGTGGAAGAGAAGGCAGCAGGATTATTACAGAACCTTGTGAAGCCAACGCGGGC
AGCCGCCAGGAGCTGCAGACCGAGAGGATCTCGTCCTTTCTTGGCGCCAGGGAGACCAGGCCTTTCATTCTGGG
CTCGAGACCAACAATTCTGAATTCCGAATCCCCCTGCGTGTGGGACTCAAGGTTGCCAGGGCTCACCTCTGATG

GGTGGGCAGGTGAGCGCTTCCAACAGCTTCTCGAGGCTGCACTGCAGAAATGCCAACGAGGACTGGATGTCGGCA
CTGTGTCCCCGGCTCTGGGATGTGCCCTCCACCACCTCTCCATCCCAGGGAGCCACGACACGATGACGTACTGC
CTGAACAAGAAGTCCCCCATTTCTCACGAGGAGTCCCGGCTGCTGCAGCTGCTGAACAAGGCCTTGGCCTGCATC
ACGCGCCCTGTGCTGCTGAAATGGTCCGTCAACCCAGGCACTGGACGTACAGAGCAGCTGGATGCCGGGGTGC GG
TACCTGGACCTGCGGATAGCCACATGCTGGAGGGCTCGGAGAAGAACCTGCACCTTTGTCCATATGGTGTACACA
ACGGCGCTGGTGGAGGACACACTCACGGAAATCTCGGAGTGGCTGGAGCGGCATCCACGCGAGGTGGTCATCCTG
GCCTGCAGAAACTTCGAGGGGCTGAGCGAGGACCTGCACGAGTACCTGGTGCCTGTATCAAGAACATCTTCGGG
GACATGCTGTGCTCTGCTGGGGAGGTGCCGACACTGCGGCAGCTGTGGTCCCGGGGCCAACAGGTATCGTCTCC
TATGAAGACGAGAGCTCCTTGCGCCGGCACCACGAGCTGTGGCCAGGAGTCCCCTACTGGTGGGGAAACAGGGTG
AAGACCGAGGCCCTCATCCGATACCTGGAGACCATGAAGAGCTGCGGCCGCCAGGAGGGTTGTTCTGTCGCCGGC
ATCAACCTCACGGAGAACCTGCAGTACGTTCTGGCGCACCCGTCCGAGTCCCTGGAGAAGATGACGCTGCCCCAAC
CTTCCGCGGCTGAGCGCGTGGGTCCGAGAGCAGTGCCCGGGGCCGGGTTACGGTGCACCAACATCATCGCGGGG
GACTTCAICGGCGCAGACGGCTTCGTACGTGACGTATCGCGCTCAATCAGAAGCTGCTGTGGTGTGACGGGAC
CCTTCTGAAGTTCGGGACGCGCGGCTGCAGTTTACCCCCGAATTTCCAAATGGAGTTTCGCTCTCGTTGCCGA
GGCTGGAGTGTAGTAGTGTGATCCTGGCTCACTGCAACCTCCACCTCCCGGGTTCCAGCAAATTTCTCTGCCTCA
GCCTCCCAAGTAGCTGGGATTGCAGGCGCCCCGCCACCACGCCCCGATAATTTTTGTGTGTTTAGCAGAGACGGGG
TTTCACCATGTTGGCCAGGCTGGTCTCGATCTCCTGACCTCAGGTGATCCACCCGCTCGGCCTCCCAAAGTGCT
GGGATGACAGGCGTGAGCCACCGCGCCCGGCTATACCTCATTTTCTACATGTCGCTTGTGGAGCTGCTGGTTC
AAGTCCCAGCCAGCCAATGGATGCCAGCACCATTTTTACTCCCTTTCCCAAGCAAATCGTGCATTTTTGTCTA
ACGAGAGACATCAGTTTCTCAGGATGATCCTCAAGAACGTTATGGAGTCCATGTTGCAATAGGTTCTCTTTGGGA
CCTAATGACTCATTTTCCAAAAATCCGCTTCTACTTTTGGTACCCGGTTGCTACGGTGAAATGAAGGTGCCCCGC
ATCCAGAAAGACGCACTCCTGGACCACAACCGGCGGCTACCTCAGCCCCACGGCTCTGCAGGATCAGGGCTCGGG
CAGGCCCCGCGGAGATGAAGAATTTGCAGGGAGCCTCCCTGACTTCCGTGCGCTGTGAATCCTTGTCTGTAGGG
CGGTATCCACAAAATCACCAAATTCATACAGATCGTTTAAATAAATGAACATCATTAAAGTC

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FIGURE 1256

MGGQVSASNSFSRLHCRNANEDWMSALCPRLWDVPLHHLSSIPGSHDTMTYCLNKKSPISHEESRLLQLLNKALPC
ITRPVVLKWSVTQALDVTEQLDAGVRYLDLRIAHMLEGSEKNLHFVHMVYTTALVEDTLTEISEWLERHPREVI
LACRNFEGLSEDLHEYLVACIKNIFGDMLCPRGEVPTLRQLWSRGQQVIVSYEDESSLRRHHELWPGVPYWWGNR
VKTEALIRYLETMKSCGRPGLFVAGINLTENLQYVLAHPSESLEKMTLPNLPRLSAWVREQCPGPGSRCTNIIA
GDFIGADGFVSDVIALNQKLLWC

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FIGURE 1257

CCCAATCACTCCTGGAATACACAGAGAGAGGCAGCAGCTTGCTCAGCGGACAAGGATGCTGGGCGTGAGGGACCA
AGGCCTGCCCTGCACTCGGGCCTCCTCCAGCCAGTGCTGACCAGGGACTTCTGACCTGCTGGCCAGCCAGGACCT
GTGTGGGGAGGCCCTCCTGCTGCCTTGGGGTGACAATCTCAGCTCCAGGCTACAGGGAGACCGGGAGGATCACAG
AGCCAGCATGTTACAGGATCCTGACAGTGATCAACCTCTGAACAGCCTCGATGTCAAACCCCTGCGCAAACCCCG
TATCCCCATGGAGACCTTCAGAAAGGTGGGGATCCCCATCATCATAGCACTACTGAGCCTGGCGAGTATCATCAT
TGTGGTTGTCCTCATCAAGGTGATTCTGGATAAATACTACTTCTCTGCGGGCAGCCTCTCCACTTCATCCCGAG
GAAGCAGCTGTGTGACGGAGAGCTGGACTGTCCCTTGGGGGAGGACGAGGAGCACTGTGTCAAGAGCTTCCCCGA
AGGGCCTGCAGTGGCAGTCCGCCTCTCCAAGGACCGATCCACACTGCAGGTGCTGGACTCGGCCACAGGGAAGTG
GTTCTCTGCCTGTTTCGACAACTTCACAGAAGCTCTCGCTGAGACAGCCTGTAGGCAGATGGGCTACAGCAGCAA
ACCCACTTTTCAGAGCTGTGGAGATTGGCCCAGACCAGGATCTGGATGTTGTTGAAATCACAGAAAACAGCCAGGA
GCTTCGCATGCGGAAGTCAAGTGGGCCCTGTCTCTCAGGCTCCCTGGTCTCCCTGCACTGTCTTGCTGTGGGAA
GAGCCTGAAGACCCCCCGTGTGGTGGGTGGGGAGGAGGCCTCTGTGGATTCTTGCCCTTGCGAGGTGAGCATCCA
GTACGACAAACAGCACGCTCTGTGGAGGGAGCATCTGGACCCCCACTGGGTCTCACGGCAGCCCACTGCTTCAG
GAAACATACCGATGTGTTCAACTGGAAGGTGCGGGCAGGCTCAGACAAACTGGGCAGCTTCCCATCCCTGGCTGT
GGCCAAGATCATCATCATTGAATTCAACCCCATGTACCCCAAAGACAATGACATCGCCCTCATGAAGCTGCAGTT
CCCACTCACTTTCTCAGGCACAGTCAGGCCCATCTGTCTGCCCTTCTTTGATGAGGAGCTCACTCCAGCCACCCC
ACTCTGGATCATTGGATGGGGCTTTACGAAGCAGAATGGAGGGAAGATGTCTGACATACTGCTGCAGGCGTCAGT
CCAGGTCATTGACAGCACACGGTGCAATGCAGACGATGCGTACCAGGGGGAAGTCACCGAGAAGATGATGTGTGC
AGGCATCCCGGAAGGGGGTGTGGACACCTGCCAGGGTGACAGTGGTGGGCCCCCTGATGTACCAATCTGACCAGTG
GCATGTGGTGGGCATCGTTAGCTGGGGCTATGGCTGCGGGGGCCCGAGCACCCAGGAGTATACACCAAGGTCTC
AGCCTATCTCAACTGGATCTACAATGTCTGGAAGGCTGAGCTGTAATGCTGCTGCCCCCTTTCAGTGCTGGGAGC
CGCTTCCTTCTGCCCCCTGCCACCTGGGGATCCCCCAAAGTCAGACACAGAGCAAGAGTCCCCCTTGGGTACACCC
CTCTGCCCCACAGCCTCAGCATTCTTGGAGCAGCAAAGGGCCTCAATTCCTGTAAGAGACCCTCGCAGCCCAGAG
GCGCCCAGAGGAAGTCAGCAGCCCTAGCTCGGCCACACTTGGTGCTCCCAGCATCCCAGGGAGAGACACAGCCCA
CTGAACAAGGTCTCAGGGGTATTGCTAAGCCAAGAAGGAAGTTTCCACACTACTGAATGGAAGCAGGCTGTCTT
GTAAAAGCCCAGATCACTGTGGGCTGGAGAGGAGAAGGAAAGGGTCTGCGCCAGCCCTGTCCGTCTTACCCATC
CCCAAGCCTACTAGAGCAAGAAACAGTTGTAATATAAAATGCACGTGCCCTACTGTTGGTATGACTACCGTTACC
TACTGTTGTCAATTGTTATTACAGCTATGGCCACTATTATTAAAGAGCTGTGTAACATCAAAAAAAAAAAAAAAAAA
AAAA

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FIGURE 1258

MLQDPDSQPLNSLDVKPLRKPRIPMETFRKVGIPIIIIALLSLASIIIVVVLIKVILDKYYFLCGQPLHFIPRKQ
LCDGELDCPLGEDEEHCVKSFPEGPAVAVRLSKDRSTLQVLDSATGNWFSACFDNFTEALAEACRQMGYSSKPT
FRAVEIGPDQDLDVVEITENSQELMRNSSGPCLSGSLVSLHCLACGKSLKTPRVVGEEASVDSWPWQVSIQYD
KQHVCGGSILDPHWVLTAAHCFRKHTDVFNWKVRAGSDKLSFPSLAVAKIIIIIEFNPMYPKDNDIALMKLQFPL
TFSGTVRPICLPFFDEELTPATPLWIIIGWGFTKQNGGKMSDILLQASVQVIDSTRCNADDAYQGEVTEKMMCAGI
PEGGVDTCCQDSSGGPLMYQSDQWHVVGIVSWGYGCGGPSTPGVYTKVSAYLNWIYNVWKAEL

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FIGURE 1259

AATCTGTGGTTTTTGTCTCAAAACTCAGTCTATCTGGATGCGTTGAATTATAGACAGATGCTCTGGCCGTGCTGGAA
GAAGAGGTCAAGACCTGATGGGAGATGTATATTTCTTTGATATTCCATTCCCCAAAATAGGAAAACTCATAAAAT
CCAATGTTCCCTGAGCTGAGAGGACACTTCCCTCTCAGCATAACCCTGGTCCCTGCGACTCATGCTGCTGGCTTCCA
AGGGAGATGACCCAGAGGATGCCAAGGCAAAGGTGCTATCAGTGCTAAAGCATTTCATTGCTGTCCTTCAAGCAAC
CCAGAGTCATGGACATGTTAAAACCTTTACTTCCCTGTTTTCTTTGCAGTTCCTGGTGAAAAGAGGGCTATTTAGATC
AAGAAGGTAATCCTATGGGGTTTGTCTGGACTTGTGTACATTTCATTATCATGAACCTTCTAATCTTGTTTTTG
TGAGTTTTCTTGTAATGGCCTCTTCCATGATCTCTGTGAGCAACCAGGAAAGGCTCAAAACATTTTTCTCAAG
ACGTTATGAAAAGCTAGTATTAGTATTGGCACATCTCTTTGGAAGAAGATATTTCCACCAAAGTTCAGGATG
CACACTTCGAGTTTTATCAATCAAAGGTGTTCCCTTGATGATCTCCCTGAGGATTTTAGTGATGCTTTAGATGAAT
ATAACATGAAAATTATGGAGGACTTTACCACTTTCCCTACGAATTGTTCCAAACTGGCTGATATGAATCAGGAAT
ATCAACTCCCATTGTCAAAAATCAAATTCACAGGTAAAGAATGTGAAGACTCTCAACTCGTATCTCATTGATGA
GCTGCAAGGAAGGAAGAGTAGCAATTTACCATTGTTTGTCTGTCTGGGAACCTTGATGATGATTTGCTTCGAC
TAGAAACTCCAAACCATGTTACTCTAGGCACAATCGGTGTCAATCGCTCTCAGGCTCCAGTGCTGTTGTCACAGA
AATTTGATAACCGAGGAAGGAAAATGTCGCTTAATGCCTATGCACTGGATTTCTACAAACATGGTTCCTTGATAG
GATTAGTCCAGGATAACAGGATGAATGAAGGAGATGCTTATTATTTGTTGAAGGATTTTGCACTCACCATTAAAT
CTATCAGTGTTCCTTGCGTGAGCTATGTGAAAATGAAGACGACAACGTTGTCTTAGCCTTTGAACAACTGAGTA
CAACTTTTTGGGAAAAGTTAAACAAAGTCTAAAAACAAAGTCTATGCAAACCACTCAAAAATAATTCCATAGTAG
TTTTTCAGGTCACGTTTTTGATTCTTATGCTTCTTGCCAGAAATACATTATGATAAAGTGGAATAACATTACGAT
GAAGTGAAAAGAGCAAACACTTTGGAATCAAACAGAGTTGCAATCAAACCTGCCATGTTCTGTGATGAATACTCA
CAAATTATTTAGTATACCTGAATCTTGTTTTCTTTTATAACTGAGTAATAATGGTTACATCTCAGGTAGTTTGA
GGATTGACTAAAAAAATGCGAGAATGTTGTATGTGACTGAATAACAATTTTTACTCTGCGAAGCCAAAGTAAATA
TAATATTATCAGTAACTTTATCCCCAGTGTCAGTATTTATAAAATGTTTATTAAGGCTAGAAAAATGAATACAA
TATCCTGAAGGTGAAATATATTCTCTTCAATTAGCATAAATATGATTTACATAAGTTAGCTATACAGCTATTGAG
ATAGTACTTTCTAGTAACTTAACTACTTTTTTAAACATACATTTTGTGTTGATTTAACAAAAATATAGAGAATG
ATTTGCTTTATTGTAATTGTATATAAGTGACTGAAAAGCACAAAGAAATAAAGTGGGTTCGATCTGTTTACCAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1260

MSGRAGRRGQDLMGDVYFFDIPFPKIGKLIKSNVPELRGHFPLSITLVLRMLLASKGDDPEDAKAKVLSVLKHS
LLSFKQPRVMDMLKLYFLFSIQFLVKEGYLDQEGNPMGFAGLVSHLHYHEPSNLVFVSFLVNGLFHDLCPTRKG
SKHFSQDVMEKLVVLVLAHLFGRRYFPPKFQDAHFEFYQSKVFLDDLPEDFSDALDEYNMKIMEDFTTFLRIVSKL
ADMNQEYQLPLSKIKFTGKECEDSQLVSHLMSCKEGRVAISPFCVCLSGNFDDDLLRLETPNHVTIGTIGVNRQA
PVLLSQKFDNRGRKMSLNAYALDFYKHGSLIGLVQDNRMNEGDAYLLKDFALTIKSISVSLRELCENEDDNVVL
AFEQLSTTFWEKLNKV

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FIGURE 1261

ATCTGTGGGAGCAGTTTATTCCAGTATCACCCAGGGTGCAGCCACACCAGGACTGTGTTGAAGGGTGTTCCTTTT
CTTTTAAATGTAATACCTCCTCATCTTTTCTTCTTACACAGTGTCTGAGAACATTTACATTATAGATAAGTAGTA
CATGGTGGATAAATTCTACTTTTAGGAGGACTACTCTCTTCTGACAGTCTTAGACTGGTCTTCTACACTAAGACA
CCATGAAGGAGTATGTGCTCCTATTATTCTGGCTTTGTGCTCTGCCAAACCCTTCTTTAGCCCTTCACACATCG
CACTGAAGAATATGATGCTGAAGGATATGGAAGACACAGATGATGATGATGATGATGATGATGATGATGATGATG
ATGATGATGAGGACAACCTCTCTTTTTCCAACAAGAGAGCCAAGAAGCCATTTTTTTCCATTTGATCTGTTTCCAA
TGTGTCCATTTGGATGTCAGTGCTATTACGAGTTGTACATTGCTCAGATTTAGGTTTGACCTCAGTCCCAACCA
ACATTCCATTTGATACTCGAATGCTTGATCTTCAAACAATAAAATTAAGGAAATCAAAGAAAATGATTTTAAAG
GACTCACTTCACTTTATGGTCTGATCCTGAACAACAACAAGCTAACGAAGATTCACCCAAAAGCCTTTCTAACCA
CAAAGAAGTTGCGAAGGCTGTATCTGTCCACAATCAACTAAGTGAAATACCACTTAATCTTCCCAAATCATTAG
CAGAATCAGAATTCATGAAAAATAAGTTAAGAAAATACAAAAGGACACATTCAAAGGAATGAATGCTTTACACG
TTTTGGAAATGAGTGCAAACCCTCTTGATAATAATGGGATAGAGCCAGGGGCATTTGAAGGGGTGACGGTGTTCC
ATATCAGAATTGCAGAAGCAAACTGACCTCAGTTCTTAAAGGCTTACCACCAACTTTATTGGAGCTTCACTTAG
ATTATAATAAAATTTCAACAGTGGAACCTTGAGGATTTTAAACGATACAAAGAACTACAAAGGCTGGGCCTAGGAA
ACAACAAAATCACAGATATCGAAAATGGGAGTCTTGCTAACATACCACGTGTGAGAGAAAATACATTTGGAAAACA
ATAAACTAAAAAAAATCCCTTCAGGATTACCAGAGTTGAAATACCTCCAGATAATCTTCCCTTCATTCTAATTCAA
TTGCAAGAGTGGGAGTAAATGACTTCTGTCCAACAGTGCCAAAGATGAAGAAATCTTTATACAGTGCATAAGTT
TATTCAACAACCCGGTGAAATACTGGGAAATGCAACCTGCAACATTTCTGTTGTGTTTTGAGCAGAATGAGTGTT
AGCTTGGGAACCTTTGGAATGTAATAATTAGTAATTGGTAATGTCCATTTAATATAAGATTCAAAAATCCCTACAT
TTGGAATACTTGAACCTCTATTAATAATGGTAGTATTATATATACAAGCAAATATCTATTCTCAAGTGGTAAGTCC
ACTGACTTATTTTATGACAAGAAATTTCAACGGAATTTTGCCAACTATTGATACATAAGGGTTGAGAGAAACAA
GCATCTATTGCAGTTTCTTTTGGGTACAAATGATCTTACATAAATCTCATGCTTGACCATTCCTTTCTTCATAA
CAAAAAGTAAGATATTCGGTATTTAACACTTTGTTATCAAGCACATTTTAAAAAGAGCTGTACTGTAAATGGAA
TGCTTGACTTAGCAAAATTTGTGCTCTTTCAATTTGCTGTTAGAAAAACAGAATTAACAAAGACAGTAATGTGAAG
AGTGCATTACACTATTCTTATTCTTTAGTAGCTTGGGTAGTACTGTAATATTTTAAATCATCTTAAAGTATGATT
TGATATAATCTTATTGAAATTACCTTATCATGTCTTAGAGCCCGTCTTTATGTTTAAACTAATTTCTTAAATA
AAGCCTTCAGTAAATGTTTATTACCAACTTGATAAATGCTACTCATAAGAGCTGGTTTGGGGCTATAGCATATGC
TTTTTTTTTTTTAATTATTACCTGATTTAAAAATCTCTGTAAAAACGTGTAGTGTTCATAAAATCTGTAACCTG
CATTTTAATGATCCGCTATTATAAGCTTTTAAATAGCATGAAAATTGTTAGGCTATATAACATTGCCACTTCAACT
CTAAGGAATATTTTGGAGATATCCCTTTGGAAGACCTTGCTTGGAAGAGCCTGGACACTAACAAATCTACACCAA
ATTGTCTCTTCAAAATACGTATGGACTGGATAACTCTGAGAAACACATCTAGTATAACTGAATAAGCAGAGCATCA
AATTAAACAGACAGAAACCGAAAGCTCTATATAAATGCTCAGAGTTCTTTATGTATTTCTTATTGGCATTCAACA
TATGTAAATCAGAAAACAGGGAAATTTTCATTAAAAATATTGGTTTGAAAAAAAAAAAAAAAAAAAA

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FIGURE 1262

MKEYVLLLFLALCSAKPFFSPSHIALKNMMLKDMEDTDDDDDDDDDDDDDDDDNSLFPTREPRSHFFPFDFLFP
CPFGCQCYSRVVHCSDLGLTSVPTNIPFDTRMLDLQNNKIKEIKENDFKGLTSLYGLILNNKLTKIHPKAFLTT
KKLRRLYLSHNQLSEIPLNLPKSLAELRIHENKVKKIQKDTFKGMNALHVLEMSANPLDNNGIEPGAFEGVTVFH
IRIAEAKLTSVPKGLPPTLLELHLDYNKISTVELEDFKRYKELQRLGLGNNKITDIENGLANIPRVREIHLENN
KLKKIPSGLPKYLQIIFLHSNSIARVGVNDFCPTVPKMKKSLYSAISLFNNPVKYWEMQPATFRCVLSRMSVQ
LGNFGM

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FIGURE 1263

ACGAGGGACGCAGCCATGGCGGAGGCGGCTTTGGAAGCCGTGCGGAGCGAGTTACGAGAATTCCCGGCCGCTGCA
AGGGAGCTCTGCGTGCCCTTGTGTGCCCTACCTGGACAAACCCCCAACTCCGCTCCACTTCTACCGGGACTGG
GTCTGCCCCAACAGGCCGTGCATTATCCGCAACGCTCTGCAGCACTGGCCGGCCCTCCAGAAGTGGTCCCTCCCC
TATTTTCAGAGCCACAGTGGGCTCCACAGAGGTGAGTGTGGCCGTGACCCAGATGGTTACGCGGATGCCGTGAGA
GGGGATCGCTTCATGATGCCAGCTGAGCGCCGCTGCCCCGTGAGCTTCGTGCTGGATGTGCTGGAGGGCCGGGCC
CAGCACCCCTGGAGTCCCTCTATGTGCAGAAGCAGTGTCTCAACCTGCCCAGCGAGCTGCCCCAGCTGCTGCCTGAT
CTGGAATCCCATGTGCCCTGGGCCTCCGAAGCCCTGGGAAAGATGCCCGATGCTGTGAACCTTCTGGCTGGGGGAG
GCGGCTGCAGTGACTTCTTTGCACAAGGACCACTATGAGAACCTCTACTGCGTGGTCTCAGGAGAGAAGCATTTC
CTGTTCCATCCGCCAGCGACCGGCCCTTCATCCCCTATGAGCTGTACACGCCGGCAACCTACCAGCTAACTGAA
GAGGGCACCTTTAAGGTGGTGGATGAAGAGGCCATGGAGAAGGCAGAGGTGTCCAGGACCTGCCTGCTCACGGTT
CGTGTCTGCGAGGCCCATCGCCTACCCTCTAAGGACCTAGTGACCCCTCTGACTGCTACGTGACTCTCTGGCTG
CCCACGGCCTGCAGCCACAGGCTCCAGACACGCACGGTCAAGAACAGCAGTAGCCCTGTCTGGAACAGAGCTTT
CACTTCAGGATCCACAGGCAGCTCAAGAATGTATGGAACCTGAAAGTCTTTGACCAGGACCTGGTGACCGGAGAT
GACCCTGTGTTGTCTAGTACTGTTTGTATGCGGGGACTCTGCGGGCTGGGGAGTTCCGGCGCGAGAGCTTCTCACTG
AGCCCTCAGGGTGAGGGGCGCCTGGAAGTTGAATTTGCGCTGCAGAGTCTGGCTGACCGTGGCGAGTGGCTCGTC
AGCAATGGCGTTCTGGTGGCCCGGAGCTCTCTGCTTGACGTTCAACTGGAGGAGACAGGAGACCAGAAGTCC
TCAGAGCACAGAGTTCAGCTTGTGGTTCCTGGGTCTGTGAGGGTCCGCAGGAGGCCTCTGTGGGCACTGGCACC
TTCCGCTTCCACTGCCAGCCTGCTGGGAGCAGGAGCTGAGTATTCGCCCTGCAGGATGCCCCGAGGAGCAACTA
AAGGCGCCACTGAGTGCCCTGCCCTCTGGTCAAGTGGTGAGGCTTGTCTTCCCCACGTCCCAGGAGCCCTGATG
AGAGTGAGCTGAAAAAAGAAGCAGGACTGAGGGAGCTGGCCGTGCGACTGGGCTTCGGGGCCCTGTGCAGAGGAG
CAGGCCCTTCTGAGCAGGAGGAAGCAGGTGGTGGCCGCGGCCTTGAGGCAGGCCCTGCAGCTGGATGGAGACCTG
CAGGAGGATGAGATCCCAGTGGTAGCTATTATGGCCACTGGTGGTGGGATCCGGGCAATGACTTCCCTGTATGGG
CAGCTGGCTGGCCTGAAGGAGCTGGGCCTCTTGGAATTGCGTCTCTACATCACCGGGGCCCTCGGGCTCCACCTGG
GCCTTGGCCAACCTTTATGAGGACCCAGAGTGGTCTCAGAAAGACCTGGCAGGGCCCACTGAGTTGCTGAAGACC
CAGGTGACCAAGAACAAGCTGGGTGTGCTGGCCCCCAGCCAGCTGCAGCGGTACCGGCAGGAGCTGGCCGAGCGT
GCCCCGTTGGGCTACCCAAGCTGCTTACCAACCTGTGGGCCCTCATCAACGAGGCGCTGCTGCATGATGAGCCC
CATGATCACAAGCTCTCAGATCAACGGGAGGCCCTGAGTCATGCCCAGAACCCTCTGCCCATCTACTGTGCCCTC
AACACCAAAGGGCAGAGCCTGACCACCTTTGAATTTGGGGAGTGGTGCAGATTCTCTCCCTACGAGGTGCGCTTC
CCCAAGTACGGGGCCTTCATCCCCTCTGAGCTCTTTGGCTCCGAGTTCTTTATGGGGCAGCTGATGAAGAGGCTT
CCTGAGTCCCGCATCTGCTTCTTAGAAGGTATCTGGAGCAACCTGTATGCAGCCAACCTCCAGGACAGCTTATAC
TGGGCCTCAGAGCCCAGCCAGTTCTGGGACCGCTGGGTGAGGAACCAGGCCAACCTGGACAAGGAGCAGGTCCCC
CTTCTGAAGATAGAAGAACCACCTCAACAGCCGGCAGRATAGCTGAGTTTTTACCGATCTTCTGACGTGGCGT
CCACTGGCCCAGGCCACACATAATTTCTGCGTGGCCTCCATTTCACAAAGACTACTTTTCAGCATCTCACTTC
TCCACATGGAAAGCTACCACTCTGGATGGGCTCCCCAACCCAGCTGACACCCTCGGAGCCCCACCTGTGCCTGCTG
GATGTTGGCTACCTCATCAATACCAGCTGCCTGCCCCCTCTGCAGCCCACTCGGGACGTGGACCTCATCCTGTCA
TTGGACTACAACCTCCACGGAGCCTTCCAGCAGTTGCAGCTCCTGGGCGGTTCTGCCAGGAGCAGGGGATCCCG
TTCACCCATCTCGCCAGCCCCGAAGAGCAGCTCCAGCCTCGGGAGTGCCACACCTTCTCCGACCCACCTGC
CCCGGAGCCCCGTGCGGTGCTGCACTTCTCTGGTTCAGCGACTCCTTCCGGGAGTACTCGGCCCTGGGGTCCGG
CGGACACCCGAGGAGGCGGCAGCTGGGGAGGTGAACCTGTCTTCATCGGACTCTCCCTACCACTACACGAAGGTG
ACCTACAGCCAGGAGGACGTGGACAAGCTGCTGCACCTGACACATTACAATGTCTGCAACAACCAGGAGCAGCTG
CTGGAGGCTCTGCGCCAGGCAGTGCAGCGGAGGCGGCAGCGCAGGCCCCACTGATGGCCGGGGCCCTGCCACCC
CTAACTCTCATTATTCCCTGGCTGCTGAGTTGCAGGTGGGAACTGTATCAGCAGTGTTCAGAGCCTCGGGC
TCAGGTGGCACKGTCCCAGGGTCCAGGCTGAGGGCTGGGAGCTCCCTTGCGCCTCAGCAGTTTGCAGTGGGGTAA
GGAGGCCAAGCCCATTTGTGTAATACCCAAAACCCCCCGCCTGTGCTGTTTTCCCTTCTGCGCTACCTTGAG
TAGTTGGAGCACTTGATACATCACAGACTCATACAAAAA

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FIGURE 1264

MAEAALEAVRSELREFPAAARELCVPLAVPYLDKPPTPLHFYRDWVCPNRPCTIIRNALQHWPALQKWSLPYFRAT
VGSTEVSVAVTPDGYADAVRGDRFMMPAERRRLPLSFVLDVLEGRAQHPGVLYVQKQCSNLPSELPQLLPDLESHV
PWASEALGKMPDAVNFWLGEAAAVTSLHKDHYENLYCVVSGEKHFLFHPPSDRPFIPYELYTPATYQLTEEGTFK
VVDEEAMEKAEVSRTCLLTVRVLQAHRLPSKDLVTPSDCYVTLWLPTACSHRLQTRTVKNSSSPVWNQSFHFRIH
RQLKNVMELEKVFQDQDLVTGDDPVLSVLFDAAGTLRAGEFRRESFSLSPQGEGRLEVEFRLQSLADRGEWLVSNGVL
VARELSCLHVQLEETGDQKSSEHRVQLVVPGSCEGPQEASVGTGTFRFHCPACWEQELSLRLQDAPEEQKAPLS
ALPSGQVVRLVFPTSQEPLMRVELKKEAGLRELAVRLGFGPCAEEQAFLSRRKQVVAAALRQALQLDGDLEDEI
PVVAIMATGGGIRAMTSLYGQLAGLKEGLLDCVSYITGASGSTWALANLYEDPEWSQKDLAGPTELLKTQVTKN
KLGVLAPSQLQRYRQELAERARLGYPSCFTNLWALINEALLHDEPHDHKLSQREALSHGQNPLPIYCALNTKGQ
SLTTFEFGWCEFSPIYEVGFPHYGAFIPSEFGSEFFMGQMLKRLPESRICFLEGIWSNLYAANLQDSLYWASEP
SQFWRWRVNQANLDKEQVPLLKIEEPPSTAGRIAEFFTDLLTWRPLAQATHNFLRGLHFHKDYFQHPHFSTWKA
TTLDGLPNQLTPSEPHLCLLDVGYLINTSCLPLLQPTRDVLILSLDYNLHGAFQQLQLLGRFCQEQGIPFPPI
PSPEEQLPRECHTFSDPTCPGAPAVLHFPLVSDSFREYSAPGVRRTPEEAAAGEVNLSSSDSPYHYTKVTYSQE
DVDKLLHLTHYNVCNNQEQLLEALRQAVQRRRQRRPH

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FIGURE 1265

GGGGAGGTAGCCCGCAGTGCAGGGGCAGCGCGGGCGGGGCCACCGACGGGACGCGGGCTCCGGGAACATGGCTCG
CTTCGCTCTGACTGTTGTCCGGCATGGAGAAACAAGATTTAACAAGGAGAAAATAATCCAAGGACAAGGAGTAGA
TGAACCTCTTTTCAGAAACTGGATTTAAACAAGCAGCAGCTGCTGGTATATTTCTGAATAATGTGAAGTTTACTCA
TGCTTTCTCCAGTGATCTCATGAGGACAAAGCAGACCATGCATGGAATTTTGGAGAGAAGCAAATTTTGCAAAGA
TATGACGGTAAAGTATGACTCAAGACTTCGGGAAAGGAAATACGGGGTTGTAGAAGGCAAAGCGCTAAGTGAGCT
GAGGGCCATGGCCAAAGCAGCCAGGGAAGAGTGCCCTGTGTTTACACCGCCCGGAGGAGAGACGCTGGACCAGGT
GAAAATGCGTGGAATAGACTTTTTTTGAATTTCTTTGTCAACTAATCCTGAAAGAAGCGGATCAAAAAGAACAGTT
TTCCCAAGGATCTCCAAGCAACTGTCTGGAAACTTCTTTGGCAGAGATATTTCCTTTAGGAAAAAATCACAGCTC
TAAAGTTAATTCAGACAGCGGTATTCCAGGATTAGCAGCCAGTGTCTTAGTTGTGAGTCACGGTGCTTACATGAG
AAGTCTGTTTGATTATTTTCTGACTGACCTTAAGTGTTTCCTTACCAGCCACTCTGAGCAGATCTGAAC TTATGTC
AGTCACTCCCAATACAGGGATGAGTCTCTTTATCATAAACTTTGAGGAAGGAAGAGAAGTTAAACCAACGGTTCA
GTGTATTTGTATGAACCTACAGGATCATCTAAATGGACTGACTGAAACTCGCTAAAGGTTAAATCTGCATCAAAAT
CTAACCAATTTGAGCCTCTGAAGGGAGTGCCATTGGCTTTATTTACTTCTCTCCTCTGCTAGTCCTGATTTGGAA
ACAGTTAAAAGCCAATTTTTTAGCTCCAGTGGAACCATAGCCACATAAACTTTAATGGACAACCATATAGAATTA
ACTTATTTTGTCCAAGTACAGTTGGCATTTTCCAGAATAATTTTACCACCCTGCTAGATGTCATCTCTGGATTGC
ACATGGATGATGAAGGAACTCAGCATTGAAAGTTGGGGGATTAGTAACCTTGTTACAACGGTTTCTTTTTTCATT
TAGCCTATTTAATGGCTATTGGTAAGATACTGTATGTTTTTAGTATCTCATCCAGTGCTTAGAAGAAAGAATGG
TTTATAATTCCCAGTACAIGTTTATATTGACTGTGTTATATTTTTAAATCCTTTAAATAAAAAATCCTTATAAGT
TTATGTAAAGC

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FIGURE 1266

MARFALTVVRHGETRFNKEKIIQGQGVDEPLSETGFKQAAAAGIFLNNVKFTHAFSSDLMRTKQTMHGILERSKF
CKDMTVKYDSRLRERKYGVVEGKALSELRAMAKAAREECPVFPTPPGGETLDQVKMRGIDFFEFLCQLILKEADQK
EQFSQGSPSNCLETSLAEIFPLGKNHSSKVNSDSGIPGLAASVLVSHGAYMRSFLDYFLTDLKCSLPATLSRSE
LMSVTPNTGMSLFIINFEEGREVKPTVQCICMNLQDHLNGLTETR

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FIGURE 1267

TCCAGCTGGGTAGCCGGGGGAGCGCGCTGGGGGCTCCGCGAGTCGCTCGCCCTTGGTTTCTGGGGAAGCCTGGG
GGACGCGGCTGTGGCGGAGGCGCCCTGGGACTCAGGTCGCTGGAGCGTGGCACGCAGAGCCCCAGGCGGGAGC
TGAGGCCGCGCGGCCGCGCTTGGCCCCAGCGGGCGTGGGACTGAGCAGTCTGCTGCCCCCGACATGTGACCCAG
CCCCGCGGCCATGCGGGCTCCCGGCCGCGGCCCTGCGGCCGCTGCCGCTGCCGCGCTGCTGCTGTTGCTCC
TGGCGGCGCCTTGGGGACGGGCAGTTCCTGTGTCTCTGGTGGTTTGCCTAAACCTGCAAACATCACCTTCTTAT
CCATCAACATGAAGAATGTCCTACAATGGACTCCACCAGAGGGTCTTCAAGGAGTTAAAGTTACTTACACTGTGC
AGTATTTTCATATATGGGCAAAAGAAATGGCTGAATAAATCAGAATGCAGAAATATCAATAGAACCTACTGTGATC
TTTCTGCTGAAACTTCTGACTACGAACACCAGTATTATGCCAAAGTTAAGGCCATTTGGGGAACAAAGTGTTCCA
AATGGGCTGAAAGTGGACGGTTCATCCTTTTTTAGAAACACAAATTGGCCCACCAGAGGTGGCACTGACTACAG
ATGAGAAGTCCATTTCTGTTGTCTGACAGCTCCAGAGAAGTGAAGAGAAATCCAGAAGACCTTCTGTTTCCA
TGCAACAAATATACTCCAATCTGAAGTATAACGTGTCTGTGTTGAATACTAAATCAAAACAGAACGTGGTCCCAGT
GTGTGACCAACCACACGCTGGTGCTCACCTGGCTGGAGCCGAACACTCTTTACTGCGTACACGTGGAGTCCCTCG
TCCCAGGGCCCCCTCGCCGTGCTCAGCCTTCTGAGAAGCAGTGTGCCAGGACTTTGAAAGATCAATCATCAGAGT
TCAAGGCTAAATCATCTTCTGGTATGTTTTGCCCATATCTATTACCGTGTCTTTTTTCTGTGATGGGCTATT
CCATCTACCGATATATCCACGTTGGCAAAAGAGAAACACCCAGCAAATTTGATTTTGATTTATGGAAATGAATTTG
ACAAAAGATTCTTTGTGCCTGCTGAAAAAATCGTGATTAACCTTTATCACCTCAATATCTCGGATGATTCTAAAA
TTTCTCATCAGGATATGAGTTTACTGGGAAAAAGCAGTGATGTATCCAGCCTTAATGATCCTCAGCCCAGCGGGA
ACCTGAGGCCCCCTCAGGAGGAAGAGGAGGTGAAACATTTAGGGTATGCTTCGCATTTGATGGAAATTTTTTGTG
ACTCTGAAGAAAACACGGAAGGTACTTCTTTACCCAGCAAGAGTCCCTCAGCAGAACAATACCCCCGATAAAA
CAGTCATTGAATATGAATATGATGTCAGAACCACCTGACATTTGTGCGGGGCTGAAGAGCAGGAGCTCAGTTTGC
AGGAGGAGGTGTCCACACAAGGAACATTATTGGAGTCGCAGGCAGCGTTGGCAGTCTTGGGCCCCGAAACGTTAC
AGTACTCATACACCCCTCAGCTCCAAGACTTAGACCCCTGGCGCAGGAGCACACAGACTCGGAGGAGGGGCCGG
AGGAAGAGCCATCGACGACCCTGGTCGACTGGGATCCCCAACTGGCAGGCTGTGTATTCTTCGCTGTCCAGCT
TCGACCAGGATTCAGAGGGCTGCGAGCCTTCTGAGGGGGATGGGCTCGGAGAGGAGGGTCTTCTATCTAGACTCT
ATGAGGAGCCGGCTCCAGACAGGCCACCAGGAGAAAATGAAACCTATCTCATGCAATTCATGGAGGAATGGGGGT
TATATGTGCAGATGGAAAACTGATGCCAACACTTCCTTTTGCTTTTGTTCCTGTGCAACAAGTGAGTCACCC
CTTTGATCCCAGCCATAAAGTACCTGGGATGAAAGAAGTTTTTCCAGTTTGTGCAACAAGTGAGTCACCC
TTTCTTTTCTCTATTCTCATAGCACGTGTGTGATTGGTTTCATGCATGTAGGTCTCTTAACAATGATGGTGGSCCT
CTGGAGTCCAGGGGCTGGCCGGTTGTTCATGCAGAGAAAGCAGTCAATAAATGTTTGCCAGACTGGGTGCAGAA
TTTATTGAGGTGGGTGTACTCTGGCCTCTTGGTTTATTATTTCAAACAAGCACACTTGTACAATTATTTCTGG
GTACTTCCCATATGCACATAGCACTGTAAAAAATATTTCCCAAAGATCACTCATTTTATAAATACCACTTTTTCA
GAATTGGGTTTATTGCGAGCAGGAGGAGATACTTAAACATGCACATATAACCAGGTGGTGGTAAGTTGGTCACA
TGTGAAAACCTCAACTATTTAATCATCATGATTATTTTGTAGTGAATACATCAGGCACAGACCTTCATGATAT
CACACACTCTTGGCTACTTTAAGAGGCCATCTTTAATACTTTATGAGTAGTTCTGGAGTGTAACATAAACGAGT
ATTCTTTTGTAGTCAGAAAAGTGTCTCTCAATAATTTAGTAGGGGCTTATTGTCTCTCAAACTAACCTAAAAG
AAAATGACACATTTTATAATAGAATATTACATTTATTTCTGGAAGTGTGTTTTCAAAAAGATATTTACATAGTCT
GTAAACTAGAAAGTGTTAGGTAAAGCTCTAGGTTACTGTGTTACTATTATAATATTAAACATTCGAATAGGCAGT
CGTTCAAAGACTCTTTGGAATATCTATGAATGAATATCCTCTATTCTTATAATATTAAACCCATAAGTAAATAT
AGGACATACAAGAGAAATGAGTTAAATGACTATGTAAGGGAGAGTTTATTAAAAATTTGATGAAATTTACTGTAGG
AACTAAACTATGCCATAAAACAATAGCTTTCTAGTTTCAATTTCCAGTAACTGTTCCCATCTCCTTTACCACTTGTT
AAGAAAATTAATTTCTTCAGTCACGCTGCTTTAAATGGGACAAAATCTATTAAGTTGAACCATATATAATTGTG
GATATTTGGCTGTTTTTAATCTGACAAGCAGTAACTTCATATGGTTTTGCCCTTAATATATATTTGTTTTAGTCATG
AACTCATAATCCATTGATGCTCTTTTCATGAGAAGAGATATGACCCATATTTCTTATTGATATTATTGGTACAGG
CAGACAACCTGGTAGGAGAGATGGATTCTGGGGTCATGACCTTTTCGTGATTATCCGCAAATGCAAACAGTTTCA
GATCTAATGGTTTTAATTTAGGGAGTAATTATATTAATCAGAGTGTCTGTTATTCTCAATCTTTATAGAAACGAT
TCTGCTGGTTTTGAAGAACAGATGTATTACACTAACTGTAAAGTAGTTCAAGAGTGAGAAAGAATAAATTGTTA
TTAAGAGCAAAAGAAAAATAAAGTGAATGATGATA

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FIGURE 1268

MRAPGRPALRPLPLPPLLLLLLLAAPWGRAVPCVSGGLPKPANITFLSINMKNVLQWTPPEGLQGKVTYTVQYFI
YGQKKWLNKSECRNINRTYCDLSAETSDYEHQYYAKVKAIWGTKCSKWAESGRFYPPFLETQIGPPEVALTTDEKS
ISVVLTAPEKWKRNPEDLPVSMQQIYSNLKYNVSVLNTKSNRTWSQCVTNHTLVLTWLEPNTLYCVHVESFVPGP
PRRAQPSEKQCARTLKDQSSEFKAKIIFWYVLPISITVFLFSVMGYSIYRYIHVGKEKHPANLILYIGNEFDKRF
FVPAEKIVINFITLNISSDKISHQDMSLLGKSSDVSSLNDPQPSGNLRPPQEEEEVKHLGYASHLMEIFCDSEE
NTEGTSFTQQESLSRTIPDPKTVIEYDYDVRTTDICAGPEEQELSLQEEVSTQGTLLSQAALAVLGPQTLQYSY
TPQLQDLDPLAQEHTDSEEGPEEEPSTTLVDWDPQTGRLCIPSLSSFDQDSEGCEPSEGDGLGEEGLLSRLYEPP
APDRPPGENETYLMQFMEEWGLYVQMEN

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FIGURE 1269

AGCGCGGACTTTTTGAAAGCCAGGAGGGTTCGAATTGCAACGGCAGCTGCCGGGCGTATGTGTTGGTGCTAGAG
GCAGCTGCAGGGTCTCGCTGGGGGCCGCTCGGGACCAATTTTGAAGAGGTACTTGGCCACGACTTATTTTCACCT
CCGACCTTTTCCTTCCAGGCGGTGAGACTCTGGACTGAGAGTGGCTTTTCACAATGGAAGGGATCAGTAATTTCAAG
ACACCAAGCAAATTATCAGAAAAAAGAAATCTGTATTATGTTCAACTCCAACATAAAATATCCCGGCCTCTCCG
TTTATGCAGAAGCTTGGCTTTGGTACTGGGGTAAATGTGTACCTAATGAAAAGATCTCCAAGAGGTTTGTCTCAT
TCTCCTTGGGCTGTAAAAAAGATTAATCCTATATGTAATGATCATTATCGAAGTGTGTATCAAAAGAGACTAATG
GATGAAGCTAAGATTTTGAAGCCCTTCATCATCCAAACATTGTTGGTTATCGTGCTTTTACTGAAGCCAATGAT
GGCAGTCTGTGTCTTGCTATGGAATATGGAGGTGAAAAGTCTCTAAATGACTTAATAGAAGAACGATATAAAGCC
AGCCAAGATCCTTTTCCAGCAGCCATAATTTTAAAAGTTGCTTTGAATATGGCAAGAGGGTTAAAGTATCTGCAC
CAAGAAAAGAACTGCTTCATGGAGACATAAAGTCTTCAAATGTTGTAATTAAAGGCGATTTTGAACAATTA
ATCTGTGATGTAGGAGTCTCTCTACCACTGGATGAAAATATGACTGTGACTGACCCTGAGGCTTGTTACATTGGC
ACAGAGCCATGGAAACCCAAAGAAGCTGTGGAGGAGAATGGTGTTATTACTGACAAGGCAGACATATTTGCCTTT
GGCCTTACTTTGTGGGAAATGATGACTTTATCGATTCCACACATTAATCTTCAAATGATGATGATGATGAAGAT
AAAACTTTTGATGAAAGTGATTTTGATGATGAAGCATACTATGCAGCGTTGGGAACTAGGCCACCTATTAATATG
GAAGAACTGGATGAATCATAACCAGAAAGTAATTGAACTCTTCTCTGTATGCACTAATGAAGACCCTAAAGATCGT
CCTTCTGCTGCACACATTGTTGAAGCTCTGGAAACAGATGTCTAGTGATCATCTCAGCTGAAGTGTGGCTTGCCT
AAATAACTGTTTATTCCAAAATATTTACATAGTTACTATCAGTAGTTATTAGACTCTAAAATTGGCATATTTGAG
GACCATAGTTTCTTGTTAACATATGGATAACTATTTCTAATATGAAATATGCTTATATTGGCTATAAGCACTTGG
AATTGTACTGGGTTTTCTGTAAAGTTTTAGAACTAGCTACATAAGTACTTTGATACTGCTCATGCTGACTTAAA
ACACTAGCAGTAAAACGCTGTAACTGTAACATTAAATTGAATGACCATTACTTTTATTAATGATCTTTCTTAAA
TATTCTATATTTTAAATGGATCTACTGACATTAGCACTTTGTACAGTACAAAAATAAAGTCTACATTTGTTTAAAC
ACTGAACCTTTTGCTGATGTGTTTATCAAATGATAACTGGAAGCTGAGGAGAATATGCCTCAAAAAGAGTAGCTC
CTTGGATACTTCAGACTCTGGTTACAGATTGTCTTGATCTCTTGGATCTCCTCAGATCTTTGGTTTTTGCTTTAA
TTTATTAAATGTATTTTCCATACTGAGTTTAAAATTTATTAATTTGTACCTTAAGCATTTCCAGCTGTGTA
ACAATAAACTCAAATAGGATGATAAAGAATAAAGGACACTTTGGGTACCAGAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAA

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FIGURE 1270

MEGISNEFKTPSKLSEKKKSVLCSTPTINIPASPFMQKLGFGTGVNVYLMKRSPRGLSHSPWAVKKINPICNDHYR
SVYQKRLMDEAKILKSLHHPNIVGYRAFTEANDGSLCLAMEYGGKSLNDLIEERYKASQDPFPAAIILKVALNM
ARGLKYLHQEKLLHGDIIKSSNVVIKGFETIKICDVGVSLPLDENMTVTDPEACYIGTEPWKPKEAVEENGVI
DKADIFAFGLTLWEMMTLSIPHINLSNDDDDDEDKTFDESDFDDEAYYAALGTRPPINMEELDESYQKVIELFSVC
TNEDPKDRPSAAHIVEALETDV

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FIGURE 1271A

[illegible]

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FIGURE 1271B

GAGTATTTTTATTTTATGTATATACTATACAACAATGTTCTTTTTTGTACAGCTATGCACTGTAAATGCAGCCT
TCTTTTCAAACTGCTAAATTTTTCTTAATCAAGAATATTCAAATGTAATTATGAGGTGAAACAATTATTGTACA
CTAACATATTTAGAAGCTGAACTTACTGCTTATATATATTTGATTGTAAAAACAAAAAGACAGTGTGTGTGTCTG
TTGAGTGCAACAAGAGCAAAATGATGCTTTCCGCACATCCATCCCTTAGGTGAGCTTCAATCTAAGCATCTTGTC
AAGAAATATCCTAGTCCCCTAAAGGTATTAACCACTTCTGCGATATTTTCCACATTTTCTGTGCGCTTGTTTT
CTTTGAAGTTTTATACACTGGATTTGTTAGGGGAATGAAATTTTCTCATCTAAAATTTTCTAGAAGATATCATG
ATTTTATGTAAAGTCTCTCAATGGGTAAACCATTAAAGAAATGTTTTATTTTCTCTATCAACAGTAGTTTTGAAAC
TAGAAGTCAAAAATCTTTTTAAATGCTGTTTTGTTTTAATTTTGTGATTTTAATTTGATACAAAATGCTGAGG
TAATAATTATAGTATGATTTTTACAATAATTAATGTGTGTCTGAAGACTATCTTTGAAGCCAGTATTTCTTTCCC
TTGGCAGAGTATGACGATGGTATTTATCTGTATTTTTACAGTTATGCATCCTGTATAAATACTGATATTTTCAAT
CCTTTGTTTACTAAAGAGACATATTTATCAGTTGCAGATAGCCTATTTATTATAAATTATGAGATGATGAAAATA
ATAAAGCCAGTGGAAATTTTCTACCTAGGATGCATGACAATTGTCAGGTTGGAGTGTAAGTGCTTCATTTGGGAA
ATTCAGCTTTTGCAGAAGCAGTGTTTCTACTTGCCTAGCATGGCCTCTGACGTGACCATGGTGTGTTCTTGAT
GACATTGCTTCTGCTAAATTTAATAAAAACTTCAGAAAAACCTCCATTTTGATCATCAGGATTTTCTCTGAGTGT
GGAGTCCCTGGAATGGAATTCAGTAACATTTGGAGTGTGTATTCAAGTTTCTAAATTGAGATTGATTACTGTTT
GGCTGACATGACTTTTCTGGAAGACATGATACACCTACTACTCAATTGTTCTTTTCTTTCTCTCGCCCAACACG
ATCTTGTAAGATGGATTTTACCCCCAGGCCAATGCAGCTAATTTTGATAGCTGCATTCATTTATCACCAGCATAT
TGTGTTCTGAGTGAATCCACTGTTTGTCTGTGCGATGCTTGCTTGATTTTTTGGCTTCTTATTTCTAAGTAGAT
AGAAAGCAATAAAAAATACTATGAAATGAAAGAACTTGTTACAGGTTCTGCGTTACAACAGTAACACATCTTTAA
TCCGCCTAATTTCTGTTGTTCTGTAGGTTAAATGCAGGTATTTTAACTGTGTGAACGCCAACTAAAGTTTACAG
TCTTTCTTTCTGAATTTTGAATATCTTCTGTTGTAGAATAATAATAAAAAAGACTATTAAGAGCAATAAATTATTT
TAAGAAATCGAGATTTAGTAAATCCTATTATGTGTTCAAGGACCACATGTGTTCTCTATTTTGCCTTTAAATTTT
TGTGAACCAATTTTAAATACATTCTCCTTTTTTGCCCTGGATTGTTGACATGAGTGAATACTTGGTTTTCTTTCT
TACTTATCAAAAGACAGCACTACAGATATCATATTGAGGATTAATTTATCCCCCTACCCCCAGCCTGACAAATA
TTGTTACCATGAAGATAGTTTTTCTCAATGGACTTCAAATTCATCTAGAAATTAGTGGAGCTTTTGTATCTTCTG
CAGACACTGTGGGTAGCCCATCAAAATGTAAGCTGTGCTCCTCTCATTTTTATTTTTATTTTTTGGGAGAGAAT
ATTTCAAATGAACACGTGCACCCCATCATCACTGGAGGCAAATTTAGCATAGATCTGTAGGATTTTTAGAAAGAC
CGTGGGCCATTGCCTTCATGCCGTGGTAAGTACCACATCTACAATTTTGGTAACCGAAGTGGTGCTTTAGTAATG
TGGATTTTTTTCTTTTTTAAAGAGATGTAGCAAAATAATTCTTCCAGTGCAACAAAATCAATTTTTTGCTAAAC
GACTCCAAGAACAACAGTTGGGCTGTCAACATTCAAAGCAGCAGAGAGGGAACCTTGCCTATTGGGGTATGATG
TTTGGGTGAGTTGATAAAAGGAAACCTTTTATGCCTTTAGATGTGAGCTTCCAGTAGGTAATGATTATGTGTCC
TTTCTTGATGGCTGTAATGAGAACTTCAATCACTGTAGTCTAAGACCTGATCTATAGATACCTAGAATAGCCATG
TACTATAATGTGATGATTCTAAATTTGTACCTATGTGACAGACATTTTCAATAATGTGAAGTCTGATTTGATGG
AGCTACTTTAAGATTTGTAGGTGAAAGTGAATACTGTTGGTTGAACTATGCTGAAGAGGGAAAGTGAGCGATTA
GTTGAGCCCTTGCCGGGCCTTTTTTCCACCTGCCAATTCTACATGTATTGTTGTGGTTTTATTCAATTGTATGAAA
ATTCCTGTGATTTTTTTTTAAATGTGCAGTACACATCAGCCTCACTGAGCTAATAAAGGGAAACGAATGTTTCAA
TCT

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FIGURE 1272

MAWDMCNQDSESVWSDIECAALVGEDQPLCPDLPELDLSELDVNDLDTDSFLGGLKWCSQSEIISNQYNNEPSN
IFEKIDEENEANLLAVLTETLDSLVPDEDGLPSFDALTDGDVTTDNEASPSSMPDGTTPPPQEAEEPSLLKKLLLA
PANTQLSYNECSGLSTQNHANHNHRIRTNPAIVKTENSWSNKAKSICQQQKPQRRPCSELLKYLTNDPPHTKP
TENRNSSRDKCTSKKKSHTQSQSQHLQAKPTTSLPLTPESPNDPKGSPFENKTIERTLSVELSGTAGLTPPTTP
PHKANQDNPFRA SPKLKSSCKTVVPPPSKKPRYSESSGTQGNNSTKKGPEQSELYAQLSKSSVLTGGHEERKTKR
PSLRLFGDHDYQCSINSKTEILINISQELQDSRQLENKDVSSDWQGQICSSTDSDQCYLRETLEASKQVSPCSTR
KQLQDQEIRAELENKHFGHPSQAVFDDEADKTGELRDSDFSNEQFSKLPMFINSGLAMDGLFDDSEDESDKLSYPW
DGTQSYSLFNVSPSCSSFNSPCRDVSPPKSLFSQRPQMRSRSRFSRHRSCSRSPYSRSRSRSPGSRSSSRSC
YYYESSHYRHRTHRNSPLYVRSRSPYSRRPRYDSYEEYQHERLKREERYRREYEKRESERAKQRERQRQKAIEE
RRVIYVGKIRPDTRTELDRFEVFGIEIECTVNLRDDGDSYGFIITYRYTCDAFAALENGYTLRRSNETDFELYF
CGRKQFFKSNYADLDSNSDDFDPASTKSKYDSLDFDSLLKEAQRSLRR

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FIGURE 1273

GC GCGCCGGCCTGAGAGCCCTGTGGACAACCTCGTCATTGT CAGGCACAGAGCGGTAGACCCTGCTTCTCTAAGT
GGGCAGCGGACAGCGGCACGCACATTTACCTGTCCC GCAGACAACAGCACCATCTGCTTGGGAGAACCCTCTCC
CTTCTCTGAGAAAAGAAAGATGTCGAATGGGTATTCCACAGACGAGAATTTCCGCTATCTCATCTCGTGCTTCAGG
GCCAGGTTGAAAATGTACATCCAGGTGGAGCCTGTGCTGGACTACCTGACCTTTCTGCCTGCAGAGGTGAAGGAG
CAGATT CAGAGGACAGTCGCCACCTCCGGGAACATGCAGGCAGTTGAACTGCTGCTGAGCACCTTGGAGAAGGGA
GTCTGGCACCTTGGTTGGACTCGGGAATTCGTGGAGGCCCTCCGGAGAACC GG CAGCCCTCTGGCCGCCCTGCTAC
ATGAACCCTGAGCTCACGGACTTGCCCTCTCCATCGTTTGAGAACGCTCATGATGAATATCTCCAAC T GCTGAAC
CTCCTTCAGCCCACTCTGGTGGACAAGCTTCTAGTTAGAGACGCTTTGGATAAGTGCATGGAGGAGGAAC T GTTG
ACAATTGAAGACAGAAACCGGATTGCTGCTGCAGAAAACAATGGAAATGAATCAGGTGTAAGAGAGCTACTAAAA
AGGATTGTGCAGAAAGAAAAC TGGTTCTCTGCATTTCTGAATGTTCTTCGTCAAACAGGAAACAATGAACTTGT C
CAAGAGTTAACAGGCTCTGATTGCTCAGAAAGCAATGCAGAGATTGAGAATTTATCACAAGTTGATGGTCTCTCAA
GTGGAAGAGCAACTTCTTTCAACCACAGTT CAGCCAAATCTGGAGAAGGAGGTCTGGGGCATGGAGAATAACTCA
TCAGAATCATCTTTTGCAGATTCTTCTGTAGTTT CAGAATCAGACACAAGTTTGGCAGAAGGAAGTGT CAGCTGC
TTAGATGAAAGTCTTGGACATAACAGCAACATGGGCAGTGATT CAGGCACCATGGGAAGTGATT CAGATGAAGAG
AATGTGGCAGCAAGAGCATCCCCGGAGCCAGAACTCCAGCTCAGGCCTTACCAAATGGAAGTTGCC CAGCCAGCC
TTGGAAGGGAAGAATATCATCATCTGCCTCCCTACAGGGAGTGGA AAAACCAGAGTGGCTGTTTACATTGCCAAG
GATCACTTAGACAAGAAGAAAAAGCATCTGAGCCTGGA AAAAGTTATAGTTCTTGTCAATAAGGTACTGCTAGTT
GAACAGCTCTTCCGCAAGGAGTTCCAACCATTTTTGAAGAAATGGTATCGTGTTATTGGATTAAAGTGGTGATACC
CAACTGAAAATATCATTTCCAGAAGTTGTCAAGTCTGTGATATTATTATCAGTACAGCTCAAATCCTTGAAAAC
TCCCTCTTAAACTTGGAAAATGGAGAAGATGCTGGTGTTC AATTGT CAGAC TTTCCCTCATTATCATTGATGAA
TGTCATCACACCAACAAAGAAGCAGTGATAATAACATCATGAGGCATTATTTGATGCAGAAGTTGAAAAACAAT
AGACTCAAGAAAGAAAACAAACCAGTGATTCCCCTTCTCAGATACTGGGACTAACAGCTTCACCTGGTGTGGA
GGGGCCACGAAGCAAGCCAAAGCTGAAGAACACATTTTAAAAC TATGTGCCAATCTTGATGCATTTACTATTAAA
ACTGTTAAAGAAAACCTTGATCAACTGAAAAACCAAATACAGGAGCCATGCAAGAAGTTTGCCATTGCAGATGCA
ACCAGAGAAGATCCATTTAAAGAGAAAAC TTTAGAAAATAATGACAAGGATTCAAAC TTTATGTCAAATGAGTCCA
ATGT CAGATTTTGGAACTCAACCCTATGAACAATGGGCCATTCAAATGGAAAAAAAAGCTGCAAAAAAAGGAAAT
CGCAAAGAACGTGTTTGTGCAGAACATTTGAGGAAGTACAATGAGGCCCTACAAATTAATGACACAATTCGAATG
ATAGATGCGTATACTCATCTTGAAACTTTCTATAATGAAGAGAAAAGATAAGAAGTTTGCAGTCATAGAAGATGAT
AGTGATGAGGGTGGTGATGATGAGTATTGTGATGGTGATGAAGATGAGGATGATTTAAAGAAACCTTTGAAACTG
GATGAAACAGATAGATTTCTCATGACTTTATTTTTTGAAAACAATAAAATGTTGAAAAGGCTGGCTGAAAACCCA
GAATATGAAAATGAAAAGCTGACCAAATTAAGAAATACCATAATGGAGCAATATACTAGGACTGAGGAATCAGCA
CGAGGAATAATCTTTACAAAAACACGACAGAGTGCATATGCGCTTTCCAGTGGATTACTGAAAATGAAAATTT
GCTGAAGTAGGAGTCAAAGCCCACCATCTGATTGGAGCTGGACACAGCAGTGAGTTCAAACCCATGACACAGAAT
GAACAAAAAGAAGTCATTAGTAAATTTGCACTGGAAAAATCAATCTGCTTATCGCTACCACAGTGGCAGAAGAA
GGTCTGGATATTAAAGAATGTAACATTGTTATCCGTTATGGTCTCGTCACCAATGAAATAGCCATGGTCCAGGCC
CGTGGTCGAGCCAGAGCTGATGAGAGCACCTACGTCCTGGTTGCTCAGAGTGGTTCAGGAGTTATCGAACATGAG
ACAGTTAATGATTTCCGAGAGAAGATGATGTATAAAGCTATACATTGTGTTCAAATATGAAACCAGAGGAGTAT
GCTCATAAGATTTTGGAAATTACAGATGCAAAGTATAATGGAAAAGAAAATGAAAACCAAGAGAAATATTGCCAAG
CATTACAAGAATAACCCATCACTAATAACTTTCTTTGCAAAAAC TGCAGTGTGCTAGCCTGTTCTGGGGAAGAT
ATCCATGTAATTGAGAAAATGCATCACGTCAATATGACCCCAGAAATCAAGGAACTTTACATTGTAAGAGAAAAC
AAAGCACTGCAAAAGAAGTGTGCCGACTATCAAATAAATGGTGAAATCATCTGCAAATGTGGCCAGGCTTGGGGA
ACAATGATGGTGCACAAAGGCTTAGATTTGCCTTGTCTCAAAAATAAGGAATTTTGTAGTGGTTTTCAAAAATAAT
TCAACAAAGAAACAATACAAAAGTGGGTAGAATTACCTATCACATTTCCCAATCTTGACTATT CAGAATGCTGT
TTATTTAGTGATGAGGATTAGCACTTGATTGAAGATTCTTTTAAAA TACTATCAGTTAAACATTTAATATGATTA
TGATTAATGTATTCAATTATGCTACAGAACTGACATAAGAATCAATAAAATGATTGTTTTACTCTGAAAAA
AAAA

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FIGURE 1274

MSNGYSTDENFRYLISCFRARVKMYIQVEPVLDTFLPAEVKEQIQRTVATSGNMQAVELLSTLEKGVVHIGW
TREFVEALRRITGSPLAARYMNPETDLPSFSFENAHDEYLQLLNLLQPTLVDKLLVRDVLDKMEEELLTIEDRN
RIAAAENNGNESGVRELLKRIVQKENWFSAFNLNLRQTGNNELVQELTGSDCSESNAEIEENLSQVDGPQVEEQLL
STTVQPNLEKEVWGMENNSSESSFADSSVSESDTSLAEGSVSCLDESLGHNSNMGSDSGTMGSDSDEENVAARA
SPEPELQLRPYQMEVAQPALEGKNIICLP TGSGKTRVAVYIAKDHLDDKKKASEPGKVIVLVNKVLLVEQLFRK
EFQPFLLKKWYRVIGLSGDTQLKISFPEVVKSCDIIISTAQILENSLLNLENGEDAGVQLSDFSLIIIDECHHTNK
EAVYNNIMRHYLMQKLKNNRLKKENKPVIPLPQILGLTASPGVGATKQAKAEHILKLCANLDAFTIKTVKENL
DQLKNQIQEPCKKFAIADATREDPFKEKLEIMTRIQTTCQMSPMDFGTQPYEQWAIQMEKKAACKGNRKERV
AEHLRKYNEALQINDTIRMIDAYTHLETIFYNEEKDKKFAVIEDDSDEGGDDEYCDGDEDEDDLKKPLKLDETDRF
LMTLFFENNKMLKRLAENPEYENEKLTCLRNTIMEQYTRTEESARGIIFTKTRQSAYALSQWITENEKFAEVGVK
AHHLIGAGHSSEFKPMTQNEQKEVISKFRTGKINLLIATTVAEEGLDIKECNIVIRYGLVTNETIAMVQARGRARA
DESTYVLVAHSGSGVIEHETVNDFREKMMYKAHCVQNMKPEEYAHKILELQMQSIMEKKMKTKRNIKHYKNNP
SLITFLCKNCVSLACSGEDIHVIEKMHVNMTPEFKELYIVRENKALQKKCADYQINGEIIICKCGQAWGTMMVHK
GLDLPCLKIRNFVVVFKNNSTKKQYKKWVELPITFPNLDYSECCLFSD

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FIGURE 1275

GGCCGGTAGCTGTTGCTGTTGGGGGACCCCTCATTCTGCGCTGCCGTCCCTGCTGCCTCATGGCGGCCATCG
GAGTTCACCTGGGCTGCACCTCAGCCTGTGTGGCCGTCTATAAGGATGGCCGGGCTGGTGTGGTTGCAAATGATG
CCGGTGACCGAGTTACTCCAGCTGTTGTTGCTTACTCAGAAAATGAAGAGATTGTTGGATTGGCAGCAAAACAAA
GTAGAATAAGAAATATTTCAAATACAGTAATGAAAGTAAAGCAGATCCTGGGCAGAAGCTCCAGTGATCCACAAG
CTCAGAAAATACATCGCGGAAAGTAAATGTTTAGTCATTGAAAAAATGGGAAATTACGATATGAAATAGATACTG
GAGAAGAAACAAAATTTGTTAACCAGAAAGATGTTGCCAGACTGATATTTAGTAAAATGAAAGAAACGGCACATT
CTGTATTGGGCTCAGATGCAAATGATGTAGTTATTACTGTCCCGTTTGATTTTGGAGAAAAGCAAAAAAATGCC
TTGGAGAAGCAGCTAGAGCTGCTGGATTTAATGTTTTGCGATTAATTCACGAACCGTCTGCAGCTCTTCTTGCTT
ATGGAATTGGACAAGACTCCCCTACTGGAAAAAGCAATATTTTGGTGTTAAGCTTGGAGGAACATCCTTATCTC
TCAGCGTCATGGAAGTTAACAGTGGAATATATCGGGTTCTTTCAACAAACACTGATGATAACATCGGTGGTGCAC
ATTTACAGAAACCTTAGCACAGTATCTAGCTTCTGAGTTCCAAAGATCCTTCAAACATGATGTGAGAGGAAATG
CGCGAGCCATGATGAAATTAACGAACAGTGCTGAAGTAGCGAAACATTTCTTGTCAACCTTGGGAAGTGCCAACT
GTTTTCTGACTCATTATATGAAGGGCAAGATTTTGATTGCAATGTGTCCAGAGCAAGATTTGAACTTCTTTGTT
CTCCACTTTTTAATAAGTGTGTTAGAAGCAATCAGAGGACTCTTAGATCAAAATGGATTTACAGCAGATGATATCA
ACAAGTTGTCCTTTGTGGAGGGTCTTCTCGAATCCCAAAGCTACAGCAACTGATTAAAGATCTTTCCCAGCTG
TTGAGCTTCTCAATTCTATCCCTCCTGATGAAGTGATCCCTATTGGTGCAGCTATAGAAGCAGGAATTCTTATTG
GGAAAGAAAACCTGTTGGTGGAAGACTCTCTTATGATAGAGTGTTACGCCAGAGATATTTTAGTTAAGGGTGTGG
ACGAATCAGGAGCCAGTAGATTACAGTGCTGTTTCCATCAGGGACTCCTTTGCCAGCTCGAAGACAACACACAT
TGCAAGCCCCCTGGAAGCATATCTTCAGTGTGCCCTTGAAGTCTATGAGTCTGATGGGAAGAACTCTGCCAAAGAGG
AAACCAAGTTTGCACAGGTTGTACTCCAGGATTTAGATAAAAAAGAAAAATGGATTACGTGATATATTAGCTGTTT
TTACTATGAAAAGGGATGGATCTTTACATGTGACATGCACAGATCAAGAACTGGAAAATGTGAAGCAATCTCTA
TTGAGATAGCATCTTAGTGTTTTTAGAGAAATCAAGAATTTTAAAAACAAGAATATCAACATTTGGTTTTGTGTA
TAAGTGGTGTGTTGATTAAATACTTTTTCAATGAAGTGTATAAACTATGTTTTATTAACTACAATATATCAGT
AAAAAAAAAAAAAAAA

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FIGURE 1276

MAAIGVHLGCTSACVAVYKDGRAGVVANDAGDRVTPAVVAYSENEEIVGLAAKQSRIRNISNTVMKVQILGRSS
SDPQAQKYIAESKCLVIEKNGKLRYEIDTGEETKFVNPEDVARLIFSKMKETAHSVLSGDANDVVITVPFDFGEK
QKNALGEAARAAGFNVRLIHEPSAALLAYGIGQDSPTGKSNILVFKLGGTSLSLSVMEVNNGIYRVLSTNTDDN
IGGAHFTETLAQYLASEFQRSFKHDVRGNARAMMKLTNSAEVAKHSLSTLGSANCFPDSLYEGQDFDCNVSRRARF
ELLCSPLEFNKLEAIRGLLDQNGFTADDINKVVLCGGSSRIPKLQQLIKDLFPVELLSIPPDEVIPIGAAIEA
GILIGKENLLVEDSLMIECSARDILVKGVDSESGASRFTVLFPSTPLPARRQHTLQAPGSISSVCELEYESDGKN
SAKEETKFAQVVLQDLDDKKENGLRDILAVLTMKRDGSLHVTCTDQETGKCEAISIEIAS

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FIGURE 1277

ACCAACGCCTACTCCCCGGTGCAGCAGGGAGTCATCATCAAAAGGAAGAGTGGGGAGATCCCATGCCCTTGGCC
GTGGAGGCGTTTGGCCGCTCACCTGAGCTACATCTGTAGATACGATGACAAATACAGCAAGTATTTTCATTTCTCAT
AAACCAAAACAAGACCTGGCAGCAGGTGTTCTGGTTGCGCATCAGCATCGCCATCAACAATGCCTACATCCTGTAC
AAAATGTCAGACGCCTACCACGTGGAGAGGTACAGCCGGGCGCAGTTTGGAGAGAGACTCGTCAGAGAGCTGCTG
GGCTTGGAGGATGCCCTCTCCGACCCACTGATGCTGGGGGCGCAGGACTCGGTCAAGGGAGGGGCAAGAGGAGGAG
GAGAGCCTGCCGTTCCAACCTTGGCCATCAGAGACCCGGACACGGCCTGGTGTGTGGCTTGCTGCCTGGGAGGGAT
GCACAGGGCCTCTGGAGGGACAGGATGGACCTGGTCAGAGGACGGTTGCTGTCTCATTTCATTCCAAGAAGAG
CATGTCTCCCTCGAGAAACAGTGCCGCGGTGTGATGAGCACTTACACCCACGTTCTCAAGGGCAGATTCTCTC
ATGACATCCGTGGAGCTTGGCAGGCAGCGTGGACTGGTGACTGTGAAGGAAGGCCCCCGTGGTAGAATGAGCTGG
AGCACGCTCTAAGAGAGATGCCTGCTTCCTAAAGATCTACAGCAATCTGGGACGTGGTTCAAGTTCAAGACTTGA
AGGAAGCAAAGACGCCCTGCATGGTTACAATGGCTCAGGTGTCAGGGGAGGCCGGAGGGTTTTCCAGCATTGGCC
TCATGCCAGCACCTTTGAACCGGTCTCTTAGAAGAAGACACACATCCTGGGTGTACAGTGGTGAAATGGGGAGTG
GGTGCCCATTTGAAAAACGAGGCATTCTGCTCATTCCCTCTGCTTAGCTGGTGGGCAGGGGAGAGAGGGGAAAT
GCCAAAACTTGGAGTGAAGGATGATGCTATTTTTTATTTTTTAAATATATCTTCAGGTTATTTTCTTACTGTTGC
TTCAGATCTAATGTAAAAGGCAGATGTCCCTCCTCTCCACCCCCGACGCTGACCCCGGCCTCAGTCACGGCTCT
TTGCATGATCACAGTTCTGTGTTCTGGCCTGTGGCAGGGCCGGGAAGGGCCGCTGGCTTCCGAACAGACGTGGTT
GCTCTCCACGAGGCGCATGGGGAGCCCGCGGGCCCTAAGCTTTGTGCGCAGATGTCATCATTGGCAGAATTACTTG
TCTTGAAAAATAAGTAGCATTGCTGAAACACACAACCGAATTCTCTACGATGGCCATTGCTCATTGTCTTTCT
CTGTGTGTAGTGAGTGACCCTGGCAGTGTTTGCTGCTCAGAGTGGCCCCCTCAGAACAACAGGGCTGGCCTTGGA
AAAACCCCAAAACAGGACTGTGGTGACAACCTCTGGTCAGGTGTGATTTGACATGAGGGCCGGAGGCGGTTGCTGA
CGGCAGGACTGGAGAGGCTGCGTGCCCGGCACTGGCAGCGAGGCTCGTGTGTCCCCCAGGCAGATCTGGGCACTT
TCCCAACCCAGGTTTTATGCGTCTCCAGGGAAGCCTCGGTGCCAGAGTGGTGGGCAGATCTGACCATCCCCACAGA
CCAGAAACAAGGAATTTCTGGGATTACCCAGTCCCCCTTCAACCCAGTTGATGTAACCACCTCATTTTTTTACAAA
TACAGAATCTATTCTACTCAGGCTATGGGCCTCGTCCCTCACTCAGTTATTGCGAGTGTTGCTGTCCGCATGCTCC
GGGCCCCACGTGGCTCCTGTGCTCTAGATCATGGTGACTCCCCCGCCCTGTGGTTGGAATCGATGCCACGGATTG
CAGGCCAAATTTTCAATCGTGTGTTTCCAAACACCCCTTGCTGTGCCCTTTAATGGGATTGAAAGCACTTTTACCACA
TGGAGAAATATATTTTTTAAATTTGTGATGCTTTTCTACAAGGTCCACTATTCCTGAGTTTAAATGTGTTTCCAACAC
TTAAGGAGACTCTAATGAAAGCTGATGAATTTTCTTTTCTGTCCAAACAAGTAAAATAAAAATAAAAGTCT

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FIGURE 1278

MTNTASISFLINQTRPGSRCSGSPSASPSTMPTSC TKCQTPTTWRG TAGRSLERDSSESCWAWRMPLRPTDAGGA
GLGQGRGKRRRRACRSNLP I RDPDTAWCVACCLGGMHRASGGTGWTWSE DGCCPHLH SKKSMSSLEKQCRRRCDEH
LHPRSQGQILS

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FIGURE 1279

GCTTCACGCTAAAGCCCCAGAGCCCCAGCGGCAGCCGCGGTAGCGGAGAAGACTGGAGCTCCGAGGAGCTGCAT
CTGCGGCAACCTGTGCGCTGACGCTACGTGCCTCCTGGCTCCGACGTAGCTCGCAGCTCCCCAGTCTCACTCCAT
TCCTTCCCACCTGGCGCGCACCTGCTCAAGACCAGGGTCTCTGCCAAGCGCTAGGAGGGCGCGTGCCAGGGGCGC
TAGGGAACCTGCGGAGCGCGCGCGCCATGGGGCGCGCGCTGGGGCCGGGGTCTCCTGCCGCGGTGGCTGCGGCTT
TTCCAGATTGCTGGCATGGTGCTTCTGCTGGCCCTGAGTCCGACGGCACCCGGTTCGCGGGGGCTGAAGCAGT
GTGGACCGCGTACCTCAACGTGTCTGGCGGGTTCCGCACACGGGAGTGAACCGTACGGTGTGGGAGCTGAGCGA
GGAGGGCGTGTACGGCCAGGACTCGCCGCTGGAGCCTGTGGCTGGGGTCTGTGTACCGCCGACGGGCCCCGGGC
GCTTAACGCCTGTAACCCGCACACGAATTTACGGTGCCACGGTTTGGGGAAGCACCGTGCAAGTCTCTTGGTT
GGCCCTCATCCAACGCGGCGGGGGCTGCACCTTCGCAGACAAGATCCATCTGGCTTATGAGAGAGGGGCGTCTGG
AGCCGTCATCTTTAACTTCCCCGGGACCCGCAATGAGGTCAATCCCATGTCTCACCCGGGTGCAGTAGACATTGT
TGCAATCATGATCGGCAATCTGAAAGGCACAAAAATTCTGCAATCTATTCAAAGAGGCATACAAGTGACAATGGT
CATAGAAGTAGGGAATAACATGGCCCTTGGGTGAATCACTATTCAATTTTTTTCGTTTCTGTGCTCTTTTTTAT
TATTACGGCGGCAACTGTGGGCTATTTTTATCTTTTATTCTGCTCGAAGGCTACGGAATGCAAGAGCTCAAAGCAG
GAAGCAGAGGCAATTAAAGGCAGATGCTAAAAAAGCTATTGGAAGGCTTCAACTACGCACACTGAAACAAGGAGA
CAAGGAAATTGGCCCTGATGGAGATAGTTGTGCTGTGTGCATTGAATTGTATAAACCAATGATTTGGTACGCAT
CTTAACGTGCAACCATATTTTCCATAAGACATGTGTTGACCATGGCTGTTAGAACACAGGACTTGCCCCATGTG
CAAATGTGACATACTCAAAGCTTTGGGAATTGAGGTGGATGTTGAAGATGGATCAGTGTCTTTACAAGTCCCTGT
ATCCAATGAAATATCTAATAGTGCTCTCTCCCATGAAGAGGATAATCGCAGCGAGACCGCATCATCTGGATATGC
TTCAGTACAGGGAACGGATGAACCGCTCTGGAGGAACACGTGCAGTCAACAAATGAAAGTCTACAGCTGGTAAA
CCATGAAGCAAATCTGTGGCAGTGGATGTTATTCTCATGTTGACAACCCACCTTTGAAGAAGACGAAACTCC
TAATCAAGAGACTGCTGTTGAGAAATTAAATCTTAAATCTGTGTAAATAGAAAACCTGAACCATTAGTAATAA
CAGAACTGCCAATCAGGGCCTAGTTTCTATTAATAAATTGGATAAAATTTAATAAATAAGAGTGATACTGAAAGT
GCTCAGATGACTAATATTATGCTATAGTTAAATGGCTTAAAAATATTTAACCTGTTAACTTTTTTCCACAAACTCA
TTATAATATTTTTCATAGGCAAGTTTCTCTCAGTAGTGATAACAACATTTTTTAGACATTCAAACCTGTCTTCAA
GAAGTCACGTTTTTCAATTTATAACAATTTTCTTATAAAAAACATGTTGCTTTTAAATGTGGAGTAGCTGTAATCA
CTTTATTTTTATGATAGTATCTTAATGAAAAATACTACTTCTTTAGCTTGGGCTACATGTGTGAGGGTTTTTCTCC
AGGTGCTTATATTGATCTGGAATTGTAATGTAAAAAGCAATGCAAACCTTAGGCGAGTACTTCTTGAAATGTCTAT
TTAAGCTGCTTTAAGTTAATAGAAAAGATTAAAGCAAAATATTCAATTTTTACTTTTTCTTATTTTTAAATTAGG
CTGAATGTACTTCATGTGATTTGTCAACCATAGTTTATCAGAGATTATGGACTTAATTGATTGGTATATTAGTGA
CATCAACTTGACACAAGATTAGACAAAAAATTCCTTACAAAAATACTGTGTAACATTTCTCAAACCTGTGGGAT
TTTTCAAAGCTCAGTATATGAATCATCATACTGTTTGAAATTGCTAATGACAGAGTAAGTAACACTAATATTGG
TCATTGATCTTCGTTTATGAATTAGTCTACAGAAAAAAATGTTCTGTAAAATTAGTCTGTTGAAAATGTTTTCC
AAACAATGTTACTTTGAAAATTGAGTTTATGTTTGACCTAAATGGGCTAAAATTACATTAGATAAACTAAAATTC
TGTCGCTGTAACATAAATTTTGTGAATGCATTTTCTGGTGTGTTGAAAAAGAAGGGGGGGGAGAATTCCAGGTGC
CTTAATATAAAGTTTGAAGCTTCATCCACCAAAGTTAAATAGAGCTATTTAAAAATGCACTTTATTTGTACTCTG
TGTGGCTTTTGTGTTTAGAATTTTGTTCAAATTATAGCAGAATTTAGGCAAAAAATAAACAGACATGTATTTTGT
TTGCTGAATGGATGAAACCATTGCATTCTTGTACACTGATTTGAAATGCTGTAAATATGTCCCAATTTGTATTGA
TTCTCTTTAAATATAAATGTAAATAAAATATTCCAATAAAAAAAAAAAAAAAAAA

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FIGURE 1280

MGPPPGAGVSCRGGCGFSRLLAWCFLLALSPQAPGSRGAEAVWTAYLNVSWRVPHTGVNRTVWELSEEGVYGQDS
PLEPVAGVLVPPDGPALNACNPHTNFTVPTVWGSTVQVSWLALIQRGGGCTFADKIHAYERGASGAVIFNFPG
TRNEVIPMSHPGAVDIVAIMIGNLKGTKILQSIQRGIQVTMVIEVGKKHGPWVNHYSIFFVSVSFFIITAATVGY
FIFYSARRLRNARAQSRKQRQLKADAKKAIGRLQLRTLKQGDKEIGPDGDSCAVCIELYKPNDLVRLTCNHIFH
KTCVDPWLLEHRTCMPCKCDILKALGIEVDVEDGSVSLQVPVSNEISNSASSHEEDNRSETASSGYASVQGTDEP
PLEEHVQSTNESLQLVNHEANSVAVDVIPHVDNPTFEEDETPNQETAVREIKS

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FIGURE 1281

GGCACGAGGCAGGCCAGGTGTGTGCGTCCGTCCGGTCTTTCCGTGCCCACGCCGGAGACCAGCCCCGGAGGCCGCC
TGGGCCTATCCCTGTGCCAGGCACCAATGAAGCAGGAGTCTGCAGCCCCGAACACCCCGCCACCTCGCAGTCCCC
TACGCCGTCCGCTCAGTTCCCCCGAAACGACGGCGACCCCTCAAGCGCTGTGGATTTTCGGGTACGGCTCCCTGGT
GTGGAGGCCCCGACTTCGCCTACAGCGACAGCCGTGTGGGCTTCGTGCGCGGCTACAGCCGCCGTTTCTGGCAGGG
AGACACCTTCCATCGGGGACGACAAGATGCCTGGCCGTGTGGTGACGCTCCTTGAAGATCATGAGGGCTGCAC
TTGGGGCGTGGCATACCAAGTGCAAGGGGAGCAGGTAAGCAAGGCCCTGAAGTACCTGAATGTGCGAGAGGCAGT
GCTTGGTGGCTACGATACCAAGGAGGTCACCTTCTATCCCCAAGATGCTCCTGACCAACCACTGAAGGCATTGGC
CTATGTGGCCACCCACAGAACCCTGGTTACCTGGGCCCTGCGCCTGAAGAGGCCATTGCCACGCAGATCCTGGC
CTGCCGGGGCTTCTCCGGCCACAACCTTGAATACTTGCTGCGTCTGGCAGACTTCATGCAGCTCTGTGGGCTCA
GGCGCAGGACGAGCACCTGGCAGCCATCGTGGACGCTGTGGGCACCATGTTGCCCTGCTTCTGCCCCACCGAGCA
GGCTCTGGCGCTGGTGTTGAGGGGGCTGAGCCCCCTGCGGGGAGTGCTCATGTGGACATCAGGGCCAGACACCCACTC
CAGTGACAAGACAGACTTGCGACCGCTTGAGCCCACTGAGCAGATATGGTGGGTGGCTGGAGGCTTCTCTTTCT
CAGTCCCTGCCTGTCTGCCAGCCTGCAGCTCTCCTGCTTGACACTGACTTACTACTTGAACTTTATTTATTGCA
CCATGTTGGTGTGGTGGGCAGGTGGAGGGCCTGCCCTGGACACAGGGGGCCCTGCTGAGCAGTGGCCCCATCCTGG
AACTTGACCAGATTCCCCCAGTGCTGCTGCTAACCCACACCACCCAGGCCTCCACCTCCCCAGGGAGTCTCCA
AGAGCCTCGATCCTCTGCTCACTCAGCCCAGCCATCCATAGCCCTGGGAATTCCACCTGCCAAGGATCCCAGCAG
GCTGGATGAGGGATAGTAGGGCATGAGGAGAAGGAGCCCTGTAAGGACTGAGGCCCCGGCCAGCCCTTCTCCTCC
ACCAGTTCCCCAGAGCAGAGCTGGAGCTGATGCCTGGACACAGCTGCTGAGCCTGGCCTGGGCCTTTACCCACT
TGGTTGTTTTCTTGTCCCTCTGTCTGTCTGTCTATCTACTTGTCTGTCTGGGCCACTCCTGCCTGTGTGTTGGTC
TATTCCTGGGAAGCTCATCACTACAGGCCCTGGCAACCTTCCCAGTCTGTCCATACTGTTACCCATAAACTAT
CTCTTTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1282

MKQESAAPNTPPTSQSPTPSAQFPRNDGDPQALWIFGYGSLVWRPDFAYSDSRVGFVRGYSRRFWQGDTFHRGSD
KMPGRVVTLLEDHEGCTWGVAYQVQGEQVSKALKYLNVREAVLGGYDTKEVTFYPQDAPDQPLKALAYVATPQNP
GYLGPAPEEAIATQILACRGFSGHNLEYLLRLADFMQLCGPQAQDEHLAAIVDAVGTMLPFCFCPTEQALALV

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FIGURE 1283

GTCGACTACCAGAAAATACTTTCAACATAAATGAACTCTCCAACCTTATTAACTTTTATATAGATAGAGGAAGAC
AGCTCTTTTCGGGATAACCACCTGATACCTGCAGAAACCCCCAGTCCTGTTATTTTCAGTGATTTTCCATTTATCT
TTAATTCGCTATCCAAAATTAAATTATTGCAAGCTGATTACATATAAAAGATGCAGATGTCAGAAAAGAAAGCAT
ACATGCTTATGCATGAAACAATTCTGCAAAAAAAGGATGAATTTCCCTCCATCACCCAGATTATACCTTAGAGTCA
GACGAAGTCGCCTGGTTAAAGATGCTCTGCGTCAATTAAGTCAAGCTGAAGCTACTGACTTCTGCAAAGTATTAG
TGGTTGAATTTATTAATGAAATTTGTCCTGAGTCTGGAGGGGTTAGTTCAGAGTTCTTCCACTGTATGTTTGAAG
AGATGACCAAGCCAGAATATGGAATGTTTCATGTATCCTGAAATGTGTTCCCTGCATGTGGTTTCCCTGCCAAGCCTA
AACCTGAGAAGAAAAGATATTTCCCTCTTTGGAATGCTGTGTGGACTCTCCTTATTCAATTTAAATGTTGCTAACC
TTCCTTTCCCACTGGCTCTGTATAAAAAAATTCTGGACCAAAAGCCATCATTGGAAGATTTAAAAGAAGCTCAGTC
CTCGGTTGGGGAAGAGTTTGCAAGAAGTTCTAGATGATGCTGCTGATGACATTGGAGATGCGCTCTGCATACGCT
TTTCTATACACTGGGACCAAAATGATGTTGACTTAATTTCAAATGGGATCTCCATACCTGTGGACCAAAACCAACA
AGAGAGACTATGTTTCTAAGTATATTGATTACATTTTCAACGCTCTGTAAAAGCAGTTTATGAGGAATTTCAGA
GAGGATTTTATAGAGTCTGTGAGAAGGAGATACTTAGACATTTCTACCCTGAAGAACTAATGACAGCAATCATTG
GAAATACTGATTATGACTGGAAACAGTTTGAACAGAATTCAAAGTATGAGCAAGGATACCAAAAATCACATCCTA
CTATACAGTTGTTTTGGAAGGCTTTCCACAAGCTAACCTTGGATGAAAAGAAAAAATTCCTCTTTTTTCTTACAG
GACGTGATAGGCTGCATGCAAGAGGCATACAGAAAATGGAAATAGTATTTTCGCTGTCCTGAAACTTTCAGTGAAA
GAGATCACCCAACATCAATAACTTGTCTATAATATTCTCTCCCTCCCTAAGTATTCTACAATGGAAAGAATGGAGG
AAGCACTCCAAGTAGCCATCAACAACAACAGAGGATTTGTCTCACCCATGCTCACACAGTCATAATCACCTCTGA
GAGACTCAGGGTGGGCTTTCTCACACTTGGATCCTTCTGTTCTTCCCTTACACCTAAATAATACAAGAGATTAATG
AATAGTGGTTAGAAGTAGTTGAGGGAGAGATTGGGGGAATGGGGAGATGATGATGATGGTCAAAGGGTGCAAAAT
CTCACACAAGACTGAGGCAGGAGAATAGGGTACAGAGATAGGGATCTAAGGATGACTTGGACACACTCCCTGGCA
CTGAAGAGTCTGAACACTGGCCTGTGATTGGTCCATTCCAGGACCTTCATTTGCATAAGGTATCAAACCACATCA
GCCTCTGATTGGCCATGGGCCAGACCTGCACTCTGGCCAATGATTGGTTTATTCCAGGACATTCAATTTGCATAAG
GAGTCAAACCACACCAGTCTTGGATTGGCTGTGAGCCAATTCACCTCAGTCTCTAATTGGCTGTGAGTCAGTCTT
TCATTTACATAGGGTGTAACCATCAAGAAACCTCTACAGGGTACTTAAGCCCCAGAAGATTTTGCTACCAGGGCT
CTTGAGCCACTTGCTCTAGCCACTCCACCCTGTGGAATGTACTTTCACTTTTGCTGCTTCACTGCCTTGTGCT
CCAATAAATCCACTCCTTCACCACCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1284

MQMSEKKAYMLMHETILQKKDEFPPSPRFILRVRRSRLVKDALRQLSQAEATDFCKVLVVEFINEICPESGGVSS
EFFHCMFEEMTKPEYGMFMYPEMCSCMWFPAPKPKPEKKRYFLFGMLCGLSLFNLNVANLPFPLALYKKLLDQKPS
LEDLKELSPRLGKSLQEVLDDAADDIGDALCIRFSIHWDQNDVDLIPNGISIPVDQTNKRDYVSKYIDYIFNVSV
KAVYEEFQRGFYRVCEKEILRHFYPEELMTAIIIGNTDYDWKQFEQNSKYEQGYQKSHPTIQLFWKAFHKLTLDK
KKFLFFLTGRDRLHARGIQKMEIVFRCPETFSERDHPTSITCHNILSLPKYSTMERMEEALQVAINNNRGFVSPM
LTQS

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FIGURE 1285

GCCCAGGCCTGGCTGAGGCGCCGCGGCGGGTCCCTCTCCACCTGCCGGGCGGAGCGCACGGGCCATGGGCTGAG
 CCCCCTGAGCCCGCCGGGCCGGCC**AT**CGGGCGATCGCGAGCGCAACAAGAAGCGGCTGCTGGAGCTGCTGCGGGC
 GCCGGACACAGGCAACGCGCACTGCGCCGACTGCGGGGCGGCAGATCCCGACTGGGCTCTTACAAGCTGGGGAT
 CTTCACTGTCTCAACTGCTGCGGCGTCCACCGTAACCTTCCCTGACATCAGCAGAGTTAAATCTGTGCGACTTGA
 CTTCTGGGACGACAGTATTGTGGAGTTTATGATCCACAATGGAAACCTCCGTGTGAAGGCCAAGTTCGAAGCCAG
 AGTCCCAGCTTTCTACTACATCCCCCAGGCCAACGACTGCCTGGTCTTAAAGGAACAATGGATTTCGAGCTAAGTA
 TGAGAGACGGGAATTTATGGCTGATGGGGAAAACCATCTCGCTCCAGGTAACCGAGAAGGATTCTGTGGAAGCG
 AGGAAGGGACAACCTCACAGTTTCTGAGAAGGAAGTTTGTACTTCTGGCAAGAGAAGGCCTCCTGAAGTACTTCAC
 AAAGGAACAGGGTAAAAGCCCCAAAGCTGTCATCAGCATTAAGGACTTGAATGCCACCTTCCAGACAGAGAAGAT
 AGGGCACCCCATGGGCTGCAGATCACCTACAGGAGAGATGGCCACACCAGGAACCTGTTTGTGTATCATGAAAG
 TGGGAAGGAGATAGTGGACTGGTTCAATGCCCTCCGTGCAGCCCGTCTGCAGTACCTAAAAATGGCCTTTCTCTGA
 ACTCCCAGAGTCTGAGCTCGTGCCATTCTCACCAGGAACTACCTCAAAACAAGGCTTTCATGGAAAAAGACTGGGCC
 AAAGCAGAAAGAACCTTTCAAGAAAAGGTGGTTTCGCCCTGGATTGCCATGAGCGGAGGCTGCTCTATTACAAGAA
 CCCACTGGATGCCTTCGAGCAGGGCCAGGTTTTTCTTGGGAACAAGGAGCAGGGATATGAAGCCTACGAAGACCT
 GCCCCAAGGGCATCCGAGGAAATCGCTGGAAAAGCCGGACTCACCATTTGTACCCCCAGAGCGGAGATTGTCTCTCAC
 TTGCCCCAGTGAGAAGGAACAGCAGGAATGGCTGGAAAAGTTTTCGCCGGGTGTCTGTCCAGCCCCCTTGACGCCCTT
 CAACCGGCTTACTGCATCAACAGAGAGTGGCCGCAGCAGCAGG**TG**ACCCATTAACTGAGGAACTGGCTGCCACTG
 AACACCTGGAACTCCTTGTGGGAAGAAGTTTGCACTCGGCCCTGGCTGCCCCACCATCAGTGCCCCGCAGTCAGC
 AGCCATTCTGGCAGTGAACCTCTGCCAGGACTGAAGCTGTGGCTTTATCCATCAGCTCCCTGGGCTTCCCCGCA
 ACCCACCTCGGGGATCTGAGGATCTGGTGATAGATGAACATCTATCCCCCTCTCCCCCATACACACCTAGGCTT
 GAAATGCCCTACAGGCCCAGAACTTTCTCACATCTGAAATGGAGGCATTGCAATGAAAAGGCACCCACAGCATCA
 TGCAAGTGGCATCTTGTAAGAAAAAGTTTAACTCTGAATCTAACCATGAGGAAAAATAATCAGACAAATCC
 ACATTAGGGGCATTCTGTCTAAACATCTGACCCAGACTCTTCAMAAATGAAGAGTGAAAAGATAAAAGTAGTCAATGG
 CCGGGCGCAGTGAGATTGCGCCATTGCATTCCAGCCTGGGTGACAGAGCGAGACTCCGTATCAGAAAAGAAAAAGA
 GGAATGAATGAAATCTCAGATGGCTGAAATGTTAGAGAAAACAGAGCACCAAGTCCCCCTGCTCTGTGACTCGTTG
 TTCTTTTCTCTGTCTTCAAGCACCAACGCGAGAAATACACTGGATGTTCTCTCTTTGCTTCAATGGAGACCCAAGG
 AGCTGGGAGGTCTCTTAAGAGACTCTCTGATTCTCCGTGGCTGGGTGTGATGGCTCATGCCCATAATCCCAGCCC
 TTTGGGAAGCTGAGGCAGGAGGATTGAGACCAGGAGTTCGAGAAGAGCCTGGGCAACATAGTGAGACCCCATCTC
 TACAAAGAAAAAAATTAAGCTGGACATGGTAATGAATGCCTGTAGTCCCAGCTACTCCGGACACTGATGTGAGA
 GGATCACTTGAGCCAGGGAGGTTCATGGCTACAGTGACCCCTCATTGCACCACTTTACTTAGCCTGGGTGACAGAG
 TGAGACCCATCTCAAAAAAAAAAAAAAAAAATCTATGCATTGTATGGGACTTTCTTTGGATCCCCCAATCAAAGGAT
 AAGCAATGCGTAAGCCTGTGTCTTCTCTGAAGCTTCTCGACTGCCCAGATAGGGAGGTGAGTCTCTCTATCTCC
 TCTGGCTCTGGAAGCACCTTGAAAAATGTGCATTTTCAAGGACACTTGCTGGGTGTGTGCATTAAAGGGCCAGTTTAC
 TTGTCTGCCTCTTTGACCACCTGTGAACCTCTGTTGGGTGTACTCTGCTAAGTTCTGGGGATGAGGAAATTAATAA
 AGGTACAGTCTTGCCCTTCAAAAAAAAAAAAA

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FIGURE 1286

MGDRERNKKRLLELLRAPDTGNAHCADCGAADPDWASYKLGIFICLNCCGVHRNFPDISRVKSVRLDFWDD SIVE
FMIHNGNLRVKAKFEARVPAFYYPQANDCLVLKEQWIRAKYERREFMADGETISLPGNREGFLWKRGRDNSQFL
RRKFVLLAREGLLKYFTKEQGKSPKAVISIKDLNATFQTEKIGHPHGLQITYRRDGHTRNLFVYHESGKEIVDWF
NALRAARLQYLKMAFPPELPESELVPFLTRNYLKQGFMEKTGPKQKEPFKKRWFALDCHERRLLYYKNPLDAFEQG
QVFLGNKEQGYEAYEDLPKGIRGNRWKAGLTIVTPERRFVLTCPSEKEQEWLESLRGVLSSPLTPLNRLTASTE
SGRSSR

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FIGURE 1287

GGGCGTCTCCGCAGCTCGGCTCCCGCGCGCTCAGCACCACCAGCGGCGCCAGATGCAGGCGGAGCGAGGAGCTCG
GGGAGGCCCGTGGGCGGCGGCCAGGCCGCGGCCGGCCTGGCGGAGATCGCCACAGCGAGCGGGCCCGGAGCCGCAGC
GGCGGTAGCCAGAGGCGGCGGCGGAGGCGGCGGCGGGGACGGAGGCGGACGCCGGGGCCGTGGCCGTGGCCGGGG
CTTCCGCGGCGCTCGCGGAGGCCGAGGAGGAGGAGGCGCCCCGCGAGGCAGCCGCCGGGAGCCGGGAGGCTGGGG
CGCAGGGGCCAGCGCGCCGTTGAAGATGACAGCGATGCAGAGACCTATGGAGAAGAGAATGATGAACAGGGA
TTATTCTAAAAGAAAGATTGTCTCTAACTGGGATCGATATCAAGATATTGAAAAAGAGGTCAATAATGAAAGTGG
AGAGTCACAGAGGGGAACAGATTTTCAAGTGTCTCTTAGCTCTGCAGGGGACTCATTCTCACAGTTCCGGTTTGC
TGAGGAGAAAGAATGGGATAGTGAAGCTTCTTGTCCAAAACAGAATTCAGCATTTTATGTGGATAGTGAGTTATT
GGTTCGAGCCCTTCAAGAGCTGCCTCTCTGCCTCCGACTCAACGTTGCTGCCGAAGTGGTCCAGGGTACAGTTCC
TTTAGAGGTTCCCTCAGGTGAAACCAAGAGAACTGATGATGGCAAGGGATTAGGGATGCAGTTAAAGGGGCCCTT
GGGGCCTGGAGGAAGGGGGCCCATCTTTGAGCTGAAATCTGTGGCTGCTGGCTGCCCTGTGTTGCTGGGCAAAGA
CAACCCAAGCCCGGGTCCCTTCAAGGGATTCTCAGAAACCCACTTCCCCACTGCAGTCAGCAGGAGACCATTGGA
AGAAGAACTAGATCTGTTGCTTAATTTAGATGCACCTATAAAAGAGGGAGATAACATCTTACCAGATCAGACGTC
TCAGGACCTGAAATCCAAGGAAGATGGGGAGGTGGTCCAAGAGGAAGAAGTTTGTGCAAAACCATCTGTGACTGA
AGAAAAAACATGGAACCTGAGCAACCAAGTACCTCCAAAATGTTACCGAGGAAGAGCTGGAAGACTGGTTGGA
CAGCATGATTTCCTAAAAAGGGGGAAAAAAGTGCCTGAAGCAAATCTTGGTTGCCTTCTAACGGCAGGTGGGCAT
AAGGCTGTCCTTCAGGACCAGCCAGTTTACAAGCATGTCTCAAGCTAGTGTGTTCCATTATGCTCACAGCAGTAA
ATGCCTACCTCTGTGTTTGACATCTGAAAGAATACATTGAAGCAGCTTGTGTCATTTGTTTTCTGGCTTAGTAA
TCTAATAGATTTCTTAAGGGCAGGAGATAGACTCTGGCCCTTGTTTCTAGCCTCCTTCCTTGCAAGTGTAA
CATAGCCAGTGTGTTACAGCATAGCAGATGCTGCTGCTGGTTAAGAGAATAGATGCAACAAGGCATGCATTGGC
CAAAATAAACAAATGCTGGTCTGTCCAAAAAXXXXXXXXXXXXXXXXXX

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FIGURE 1288

MQAERGARGGRGRRPGRGRPGGDRHSERPAAAAVARGGGGGGGGDGGGRRGRGRGRGFRGARGGRGGGGAPRGS
RREPGGWGAGASAPVEDDSDAETYGEENDEQGNYSKRKIVSNWDYQDIEKEVNNESESGESQRTDFSVLLSSAGD
SFSQFRFAEEKEWDSEASCPKQNSAFYVDSELLVRALQELPLCLRLNVAAELVQGTVPLEVPQVKPKRTDDGKGL
GMQLKGPLGPGGRGPIFELKSVAAGCPVLLGKDNPSPGPSRDSQKPTSPPLQSAGDHLEEEELDLLLNLDAPIKEGD
NILPDQTSQDLKSKEDGEVVQEEEVCAKPSVTEKNMEPEQPSTSKNVTEEELEDWLD SMIS

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FIGURE 1289

TGATAGCTGCGTAATCATACTGCGGCACCGTTTTTTTTCTTGCAGCAGTAGCTGCTTGCGGAGGAGGTCTGCCAC
TGCAGCTCTCTGCAGTCTCCGGCTCTCTCCTGCAGGATCGGTCAACGCAGCCGTCGCCGCCCTCTGCACCCAGCC
CAGGTCGCCACTGCTTCAGTCCGGTTCTCAAAGCCTCAGCACCATCTTTATCCCCGAGCAGCCTGGATCGTCGT
TCCCTCAGTCCGGACGCCACTGCTAGGTCCGACCACCGCCGCTTCTGATATTTCCGGTGAGTCTTTTCTGTGGAG
GTTTGGTCTCCCGATCTCTGTGGTAGCCACCTTAGGCGTGTACGGTCCTTTGAAAAATGCGCCGAGTCAGAGAACC
GCAAGGAGCTGTCAGAATCCAGTCAAGAAGAGGCTGGTAATCAGATAATGGTGAAGGGCTCGGGGAACATCTGG
AGCGCGGTGAAGATGCCGCTGCTGGGCTTGGAGACGATGGGAAGTGCAGTGAAGAAGCTGCCGCTGGGCTTGGGG
AAGAAGGGGAAAACGGTGAAGATACTGCTGCTGGGTCCGGGGAAGATGGGAAAAAAGGTGGCGATACTGATGAGG
ACTCAGAGGCAGACCGTCCAAAAGGACTTATCGGTTATGTTTTAGATACAGACTTTGTTGAAAGTCTACCTGTGA
AAGTTAAGTACCGTGTGTTAGCCCTTAAAAAGCTTCAAACCTAGAGCGGCCAATTTAGAATCCAAATTCCTGAGGG
AATTTTCATGACATTGAAAGAAAGTTTGTGAAATGTACCAACCCTTACTGGAAAAAGACGTCAGATCATCAATG
CAATCTATGAACCTACAGAAGAGGAATGTGAATATAAATCAGACTCTGAGGACTGTGATGATGAGGAAATGTGTC
ATGAAGAGATGTATGGTAATGAGGAGGGTATGGTACATGAATATGTGGATGAGGACGATGGTTATGAGGACTATT
ATTATGATTATGCTGTGGAAGAGGAGGAGGAGGAGGAGGAGGAGGACGACATTGAGGCTACTGGAGAAGAGAATA
AAGAAGAGGAGGATCCTAAGGGAATTCCTGATTTTTGGCTAACTGTTTTAAAAAACGTTGATACACTACTCCTT
TGATTAAGAAATATGATGAGCCTATTCTGAAGCTCCTGACAGATATTAAGTTAAGCTTTCAGATCCTGGCGAGC
CCCTCAGTTTCACACTAGAATTTCACTTCAAACCCAATGAATATTTCAAAAAATGAGTTGTTGACAAAGACCTATG
TGCTGAAGTCAAAGCTAGCATATTATGATCCCCATCCCTATAGGGGAACTGCGATTGAGTATTCCACAGGCTGTG
AGATAGATTGGAATGAAGGAAAGAATGTCACTTTGAAAAACCATCAAGAAGAAACAGAAACATCGGATCTGGGGAA
CAATCCGAACGTGAACCTGAAGATTTCCCAAGGATTCATTTTTCAATTTTTTCTCTCCTCATGGAATCACCTCAA
ATGGAAGGGATGGAATGATGATTTTTTACTTGGTCACAATTTACGTACTTACATAATTCCAAGATCAGTATTAT
TTTTCTCAGGTGATGCACCTGGAATCTCAGCAGGAGGGGGTAGTTAGAGAAGTTAATGATGCAATTTATGACAAAA
TTATTTATGATAATTGGATGGCTGCAATTGAGGAAGTTAAAGCTTGTGCAAAAAACCTTGAGGCATTAGTAGAAG
ACATTGATCGTTAGAGCAGAGTATACATGGCCCTGAAATTAAGTCCCTAGATATAGTTACTCAAGGTATAAGAA
GCCTTGTGTTCTGTATTTTTCTTGTAGTGTAGTTAAACATATGTTTCAAAAAATATAAGAAAAGTTCAAAAACT
AATTAATTTGACCTTGAGTTTTAGTAGTAGAATGTTTTCAAGAAATGTACACTGTGGTAAATGATTTAAACACT
AGTATAGTGTGTTGTAGCTTAATCCTTCTGAAGTCTTTTTGTGATGTAGCTATTAATCTGTGGCTATGAAATGAT
CAGAAATGCTAAGTGAGATCAATATTTGTTTGGAAAAAAATCTTGGGAAACAACCCAAGGGTTTTCGCTGTTGT
TGTTTTCTTTTTCTATTTTTGTTTACTTAGTCCTTTAGCTAGTGGATTTAATTTTGTGTCCTGCTTCATTTT
GCAATAACAATGCAGTAGAATTTAAACCTTGGATGCTTAAGAGGCCTGCATATAGATAAGAATTTCAGGCAAAAC
TACATTTATTGTTAATAACAGCTTGTTTCATAGGCTCTTGATTTTATGTAAGTGTGATAAATAATGAACTTAGT
TATATTGAGGTTATTGTTTGTGCGTGAAGTGTAGTCACAGTATTTTCAAAAGTTTGACATATTGTTCTGTGTA
ATTGTGTAAGCCATAATTACAGTGTTTAATTCCTTTTCTATTACATCATTCATTGAAAGTGATCACTTTACCA
TTTTGAAAAGATATTTCTGTGTTCTTCACTGCAAAATAAAAAAGATAAAAAATTTCAAAAAAAAAAAAAAAAAA
AAAAAAAAA

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FIGURE 1290

MAESENRKELSESSQEEAGNQIMVEGLGEHLERGEDAAAGLGDDGKCGEEAAAGLGEEGENGEDTAAGSGEDGKK
GGDTDEDSEADRPKGLIGYVLDTDFVESLPVKVKYRVLALKKLQTRAANLESKFLREFHDIERKFAEMYQPLLEK
RRQIINAIYEPTEEECYKSDSEDCDDEEMCHEEMYGNEEGMVHEYVDEDDGYEDYYYDYAVEEEEEEEEEEDDIE
ATGEENKEEEDPKGIPDFWLTVLKNVDTLTPLIKKYDEPILKLLTDIKVKLSDPGEPLSFTLEFHFKEPNEYFKNE
LLTKTYVLKSKLAYYDHPYRGTAIEYSTGCEIDWNEGKNVTLKTIKKKQKHRIWGTIRTVTIEDFPKDSFFNFFS
PHGITSNGRDGNDDFLLGHNLRTYIIPRSVLFFSGDALESQQEGVVREVNDAIYDKIIYDNWMAAIEEVKACCKN
LEALVEDIDR

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FIGURE 1291A

GTATTCTCCGCCGCCCCACGCCCTCGAGGTCCCCGCCACCGAACCAGCGGGCGGAGCCCCGCCGCGCCTCCCGCG
GCATTCCCGCACC GGATCGCTCCTCGCTGGGGCGGGACCTGGCCTGGCGGCTCTGGTCACTATGAGTGAAACATC
TTTCAACCTAATATCAGAAAAATGTGACATTCTATCCATTCTTCGGGACCATCCTGAAAACAGGATTTACCGGAG
GAAAATCGAGGAACCTCAGCAAAAGGTTACCGCCATCCGCAAGACCAAGGGGATGGGAACCTGCTTCTACAGGGC
CTTGGGCTATTCTACCTGGAGTCCCTGCTGGGGAAGAGCAGGGAGATCTTCAAGTTCAAAGAACGCGTACTGCA
GACCCCAAATGACCTTCTGGCTGCTGGCTTTGAGGAGCACAAAGTTCAAGAACTTCTTCAATGCTTTTTACAGTGT
GGTGGAACTGGTAGAGAAGGACGGCTCAGTGTCCAGCCTGCTGAAGGTGTTCAACGACCAGAGTGCCTCGGACCA
CATCGTGCAGTTCTGCGCCTGCTCACGTGCGCCTTATCAGGAACCGAGCAGACTTCTTCCGGCACTTCATTGA
TGAGGAGATGGACATCAAAGACTTCTGCACTCACGAAGTAGAGCCATGGCCACGGAGTGTGACCACATCCAGAT
CACGGCGTTGTGCGAGGCCCTGAGCATTGCCCTGCAAGTGGAGTACGTGGACGAGATGGATAACCGCCCTGAACCA
CCACGTGTTCCCTGAGGCCGCCACCCCTTCCGTTTACCTGCTCTATAAAACATCCCACTACAACATCCTTTATGC
AGCCGATAAACATTCATTAATTTTAGGCCATGCAGTGGAACTGTACCTAATGGGACTGCATTCTGAATGGAAC
ATTCCGGCTCTTCAATTTTTTAAGCAATTTAGACTGTAGCAAGAAAATGTGCAGCCTTTTGGGCAAAGCCCCCTGG
GAACGAGGCCCTACCCACTATGGACTATGGTAACCTGGTAGGATTTTTAGTATTTATTTTAATGGAGGGACAAATG
CTTTCTAACTGGGCCCCCGACTCCGCACCCCAAGTTCGCAGTGAAGCCCTGGGTGGGTACCTGCCCTCTCTGGAC
TTGTTTCTTCAACTGGAGGAGGTCCCTGCCTATGCTGACATTCCATTGTAGAAAAATGGGGCCTCTGGTGTCTCT
TTACCAGGGGCGAGTGCCTCTCTGCGGGGGAGGAAAAGCTCAAGGTTAGCTGTCTTAACCCAAGTGACTTACCAGG
CCTACAAAAGAGTCCAGTCCAGTCACCTGTTGGACTGGGCTCTGACAGATGGCCTATTGAGGTCAACTTGAATGT
GAGGGCTGCGGTGTGGTTTCAAACATTTCATGATGGATGTATTTTCTACCCCTAACTTAAGGAGAAAAAAGAAAA
GACTTCCTTTTTTTTGCCAAAGTCCAGAAAGGGGCCCTTTAGCCTTTAGTAGGAGCTCAAAATGTTGGGGCCCTCT
ACCTCTCTCAGGGCTAGAACTGCCTGACTCTTGGTGGACGAGCCCTTCAGGGTTCTGCTTTACGCCCCACCTGGA
CAGAGGCTTACAAGACTAGGGTCTGGACCAGAATCTGTGTATTTCTGTCTGGGACCAGGAAGCTGCAGCTGTCCC
ATCATCCCCAGCAAAATCCTAGAAGTGGAGTCTGGATACTTCAAGGATAGAAGTGTGGCAGGCACAGCCATGGAC
CCAGCTGAGCAGAGCAGACGCTTTGCAAGGCTGCCCTGGCTTCTTCTCCCTTTCCCGCTTCTGCTCTCTTTATG
GACTGGTCAGAGGGTAGGTGGGAAAGAACAGACAAGCCATGGAAGTTGGCAGTGGGGAGATTTCCACTGTGGA
CCGCTTGGGAATTCGGCCAGCAGCTTCTCTCTTACGCCACCTGGCCATAACCCCTTAAATAAGCCCCCACCTTG
CTGCCTCAGGACCTTCAAGATTCCATCTGTGGGCTGGCCGGCAAGATGGCACCAGTGGGGACCCACACCCCTGGCT
GGGCAGAGGTGCTGCTAGCAACCCCTCTTCTCTATAAGAGGAAATGGAATGCAAGGTGTGGAATTGCCCTTT
GGGGTCTTCTTAAATGAAGGCCACCTTCTCACAGGTTTCACTTCTGCAGGGATTACTGGAATCTATTGGTGTCT
GCTGCATGAGTCTGCTGACAACCTGACTGCACAAGGACTGGGTAGCAGACTCCTCAGAGTCCCTTGGACACAAAT
GTCAGATTTGTGTCACTCTTCTGCCTTCGTGAAAAGCCAATAGCACTCTCAGATATCAGGGGATTTTAGTTCCAA
GCAGGGACCCCTGGTTTCCATACTGCCCTCAGCTGGAGTTTGGATCCAAAGGCTCTGGCTAAGTCATTATGTCACT
TTCTCACAGGAATGTAAATTTGACTGTACCTCTGAATTTGTTTCAGTGTCCACCATGGTCTATGAGAAGTACAC
TGGAAGCGTGGGGGGAACACATGACATGATTTGTGAATATCATCATCTTTGCCAGACAAGTCTCCAGGGGATCCC
TGTTTCCCAACTGAAAGGTGTGAACGGACACACACACAGCCTGGATGACGCCTTGGCTGTTCTAAGGGGCTGTAA
GGTGGGCTCTGGGCCTTCCAGCTAGGCTCTCAAGCACAGCAGAAGCCTCACTGGGCTGCTATGTCTCTGTATTTG
TGGCTTGTGTGGTAGCCTCAGAAGCAGAGCTGTTTGGCAGACTGGCTGGAGAAAATCCCTCTAGGAGACTTGCCCT
GTGCTGTGCTTCCAGGTACAGAGCCCCCGGAAACTCACAGGGGGCCCTCTTCCAGAAAAGAACTATTCTATC
ACTTCAGAACTCAGGACACTCAAGCTCTGGCAGAGGAAGGCCAAGTTACTTTTCATGGTCTTACCCTCTGCTTTTCC
CCTTTTTCGAAAAAACCACTGGCCAAATCCGAACCATTTGCCCTTGTTTCCCCCACGTTCTCTCTCAGATCTTTGT
CTCGAAGGGAAAAACATAGTGGATGAAAAGGTGTGGCAGGCTTTGGCACCTTGTAAATTTCTAGTCATCTGTGG
ATGTTACCTTGCTTGTCCACAGCAGCCAGTACCCCTGGCCAGTCCCACTTCTTGGATAATTTCTTACCCCTACCC
CACAGAGCCATCTCTCTCCAGACCAAAAGCTGGAAGGAGAGTTGCTTTGAGAGCTTGTTTTTACAACCTGCATGTT
TATTATGATACTTTCTCTCCAAAGGAACTTTTTAAATCAATGGGAACAATTAGCAACAGAAAGAGCACAGTCCCT
GCTTTTACTAGCTGTATGATCTTGGCCAAGTCACTTACCTCCCTGAGCCCCAATTCCCAAGTTTGTGAAATGGC
ACAATACCTATGTGTCACTGGATTATTGGTTAAAACAGAATGAGATTCTTGTGTGAAAATAGCTATTATACCT
GACACACTCATCGTATGGGCTCTGCAAAGGGATATTCCCAACCTGTCTTCCCGACAGGAAGCATAGGGCACTG

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FIGURE 1291B

CAGATGGGGAAGCATGTCACCTTGGCAGTGACTCGGTGGCTTCCCAAGCAGGAGTGTGAGGGGAACCATGAGAGA
GAGTCTAGGAGCCAAACACATCACCACCCTGAGCAGATACAGGAGTGGGGAGGGGGCTGTAAGTCACTGAGTGGC
TTCCAGGGGCCCCAGGCCCTGCTGGATGTGGGCCAAGCCCTACAGCTTCCCTAGGCAGTAAGTAAAAACATTCTC
CTAGCATTAAAATGGTTTCATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1292

MSETSFNLISEKCDILSILRDHPENRIYRRKIEELSKRFTAIRKTKGDGNCFYRALGYSYLESLLGKSREIFKFK
ERVLQTPNDLLAAGFEEHKFRNFFNAFYSVVELVEKDGSVSSLLKVFNDQSASDHIVQFLRLLTSAFIRNRADFF
RHFIDEEMDIKDFCTHEVEPMATECDHIQITALSQALSIALQVEYVDEMDTALNHHVFPEAATPSVYLLYKTSHY
NILYAADKH

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FIGURE 1293

GTCTGTAGGTTAAGGGAGAAAGATGGCGGCGCTAGGGGAACCCGTGCGGCTGGAGAGAGATATTTGTAGAGCAATT
GAATTATTGGAAAACTACAAAAGGAGTGGAGAAGTACCACCACAGAACTTCAGGCTTTGCAAAGAGTCCTTCAA
AGTGAATTCTGCAATGCTGTGAGAGAGGTATATGAACATGTCTATGAGACTGTGGACATCAGTAGCAGTCCTGAA
GTGAGAGCGAACGCTACTGCAAAGGCTACTGTTGCTGCAATTTGCTGCCAGTGAAGGACATTCTCATCCTCGAGTT
GTTGAGCTACCAAAACAGAAAGAGGGCCTTGATTCAATATTATGGGAGGCAAAGAACAAAACCTCTCCAATCTAT
ATATCCCGAATAATTCCAGGTGGAATTGCTGATAGACATGGGGGCCTCAAACGTGGAGATCAACTCCTCTCTGTT
AATGGAGTGAGTGTGAAGGAGAACATCATGAAAAGCTGTAGAAGTCTGAAAGCCGCACAAGGAAAGGTTAAA
TTAGTGGTACGATACACACCCAAAGTCTTAGAAGAAATGGAGTCGCGCTTTGAAAAAATGAGATCAGCAAAACGC
AGGCAACAGACCTAAATACATTTCAAACCTTGATATTTCAATTTTGCCTTTTAGCTAGAGAAGTTTCTTGTGACT
TACTAATGGCTGCAATGCCAATGATTGTAAGAAAACAAACAAATTTATCATGAAATTCTCCTTGTCAATTTTATAA
ATGCCTATTTTAACATCATTATGTTCCAGAGATGCATACACTTTTTCTGACAAGAAAAAGTAAAAGGTGATG
AGGGCAATTCTGTCCTACTGTTTTTACAGGCCTTTTTCAAATGCAGATTTTGTCTATAAGTTGTTATAGATTTTT
TAAAATGCTTTTTTAATATTAAAATGTACTTTTACATTCTTAATCTTTTTTTAGAAAGGAAAAGTTTCTTCATT
TAGCTGCTGATTTAAAAGTAAAGTTCTCCAATTCCTTTTTTTTGCTTACTCTATTTTTTTTAACTGTGAAATTT
CTTTACAGTTTTTCCAAGAAATTAAGCATAACAGTCTCATCTACGGCAGTTCATTACACTGTCAATGTTAACATCA
TTGCTGCATTTTGTACTTTGAACACACACATAATATATAAACCAGTGGTAAATCATGACTCAGTACAGTGCAAG
TTTTTTCACTTTTACTTAAACATAATATATAATGGATATTCATTTATACTGATTTATGAAAGTAAGTTTTTAAAC
ACTGAAACAATCATTGCTAAAATACATATTCTTAATATTTGAGCATTGAGGCAAGAGGATGTAATTGATAGCATT
ACTTATTACATCCCTATTTATGTTCAACCGTACATCAAATTATAAATGCAAAACAGGTTTCAAGATTTTCATCTTTTG
TGATTTCTTTTAAATACTATTCAATTTTATTTAAATGCACAGTATTTCCCTATATTTTAGTCCTTCCATTCCTA
GAGACAAACCAGTTATTTGGTGGTGGGAAGTAGCTGAAGCAAAGAAGGAAAAGTAATACCTTTAACCTCACTAGC
TTCAAGAGTAGACATTCTTACTAGCTCAATTTAAATAATTGATTTTAAATAGGAAGAAAAGAGGATATATTTAAG
ATACATAGAAATTTATGATGCGAAGTATTCATGAGAATCTGTAGATTCCATCAAAATAAGTAGGAACCTCATACTAA
AATTGTTGGATTTAAAGAGGCAACTTTTGTTTATGATTCAAATATGGGAATTTGAGAAATATTTCAATTTGTCCAC
TGGATGTCATATTTTACTAAAAGGCAGCTATTAGTGTGGGACTGTGACTGAGGTCTTAAAGACTGAAAGAGTTG
GGGTTCAATTTCTGTTACAACCTTACAGGAACATTTGTACTTTAAGAAAAATTTAAGTGACAAATGTTAGAAGATG
ATGGATTGAAAAATATAAGTAATTTGGCATATTGACCCTATATAAAAAAGTGGGCATTTTGTAAACATTCCTTCAG
GAAGAATAGAATTGTATGCTTTTTTCTGCATGTTTGTGATCACTGTGAGTCTCAGATGATTATTCAGTTTTTCAA
TGATTTTCAAAATAAAAGTCAATCAGCATTGTTATTTATCATTAAGGTATTGAACACTGGATTGCATGGTTGAA
TGTGCTTTAATTCACTACAAAATGTGCTTGTTATTGATAGGATCATGTTGTTAAATTGTAAATTTTCAAAATTA
ATTGATGTTTTAAAAATGTTGAGACCAAAGTAGTATAGAAGTATGGACTTAATTTAATTGTAAATTTATTAGAGG
TATTTGTTGTAGAGCTTTATATATTAAAGAGAGGTATTGGTGCATAT

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FIGURE 1294

MAALGEPVRLERD ICRAIELLEKLQRSGEVPPQKLQALQRVLQSEFCNAVREVVYEHVYETVDISSSPEVRANATA
KATVAFAAASEGHSHPRVVELPKTEEGLGFNIMGGKEQNSPIYISRIIPGGIADRHGGLKRGDQLLSVNGVSVEG
EHHEKAVELLKAAQGKVKLVVRYTPKVLEEMESRF EKMRSAKRRQQT

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FIGURE 1295A

CAGCGCTGCTCCCCGGGCGCTCCTCCCCGGGCGCTCCTCCCCAGGCCTCCCGGGCGCTTGGATCCCGGCCATCTC
CGCACCCCTTCAAGTGGGTGTGGGTGATTTCTTGGCGGGGGGAGCAGCCAGGTGAGCCCAAGATGCTGCTGCGCTC
GAAGCCTGCGCTGCCGCCGCCGCTGATGCTGCTGCTCCTGGGGCCGCTGGGTCCCCTCTCCCCTGGCGCCCTGCC
CCGACCTGCGCAAGCACAGGACGTCGTGGACCTGGACTTCTTACCCAGGAGCCGCTGCACCTGGTGAGCCCCTC
GTTCTGTCCGTCACCATTTGACGCCAACCTGGCCACGACCCGCGGTTCTCATCCTCCTGGGTCTCCAAAGCT
TCGTACCTTGGCCAGAGGCTTGTCTCCTGCGTACCTGAGGTTTGGTGGCACCAAGACAGACTTCTAATTTTCGA
TCCCAAGAAGGAATCAACCTTTGAAGAGAGAAGTTACTGGCAATCTCAAGTCAACCAGGATATTTGCAAATATGG
ATCCATCCCTCCTGATGTGGAGGAGAAGTTACGGTTGGAATGGCCCTACCAGGAGCAATTGCTACTCCGAGAACCA
CTACCAGAAAAAGTTCAAGAACAGCACCTACTCAAGAAGCTCTGTAGATGTGCTATACACTTTTGCAAAGCTGCTC
AGGACTGGACTTGATCTTTGGCCATAATGCGTTATTAAGAACAGCAGATTTGCAGTGGAAACAGTTCTAATGCTCA
GTTGCTCCTGGACTACTGCTCTTCCAAGGGGTATAACATTTCTTGGGAACTAGGCAATGAACCTAACAGTTTCTT
TAAGAAGGCTGATATTTTCATCAATGGGTCGAGTTAGGAGAAGATTTTATTCAATTGCATAAACTTCTAAGAAA
GTCCACCTTCAAAAATGCAAACCTCTATGGTCCTGATGTTGGTCAGCCTCGAAGAAAAGACGGCTAAGATGCTGAA
GAGCTTCTGAAGGCTGGTGGAGAAGTGATTGATTACGTTACATGGCATCACTACTATTTGAATGGACGGACTGCG
TACCAGGGAAGATTTTCTAAACCCTGATGTATTGGACATTTTTATTTCATCTGTGCAAAAAGTTTTCCAGGTGGT
TGAGAGCACCAGGCCTGGCAAGAAGGCTGGTTAGGAGAAACAAGCTCTGCATATGGAGGCGGAGCGCCCTTGCT
ATCCGACACCTTTGCAGCTGGCTTTATGTGGCTGGATAAATTGGGCCTGTGAGCCGAATGGGAATAGAAGTGGT
GATGAGGCAAGTATTTCTTTGGAGCAGGAACTACCATTTAGTGGATGAAAACCTTCGATCCTTTACCTGATTATTG
GCTATCTCTTCTGTTCAAGAAATTGGTGGGCACCAAGGTGTTAATGGCAAGCGTGCAAGGTTCAAAGAGAAGGAA
GCTTCGAGTATACCTTCATTGCACAAACACTGACAATCCAAGGTATAAAGAAGGAGATTTAACTCTGTATGCCAT
AAACCTCCATAATGTCACCAAGTACTTGCGGTTACCCTATCCTTTTTCTAACAAGCAAGTGGATAAACTACCTTCT
AAGACCTTTGGGACCTCATGGATTACTTTCCAAATCTGTCCAATCAATGGTCTAACTCTAAAGATGGTGGATGA
TCAAACCTTGCCACCTTTAATGGAAAAACCTCTCCGGCCAGGAAGTTCACTGGGCTTGCCAGCTTTCTCATATAG
TTTTTTTGTGATAAGAAATGCCAAAGTTGCTGCTTGCATCTGAAAATAAAATATACTAGTCTGACACTGAATTT
TTCAAGTATACTAAGAGTAAAGCAACTCAAGTTATAGGAAAGGAAGCAGATACCTTGCAAAGCAACTAGTGGGTG
CTTGAGAGACACTGGGACACTGTGAGTGTAGATTTAGCACAGTATTTTGATCTCGCTAGGTAGAACACTGCTAA
TAATAATAGCTAATAATACCTTGTTCCAAATACTGCTTAGCATTGTGATGTTTACTTTTATCTAAAGTTTTGT
TTTGTTTATTATTATTATTATTATTATTGTTGACGGAGAGAGATTCCATCTCAAAAAACAAGTTATTAAAA
ATGTATATGAATGCTCCTAATATGGTCAGGAAGCAAGGAAGCGAAGGATATATTATGAGTTTTAAGAAGGTGCTT
AGCTGTATATTTATCTTTCAAATGTATTAGAAGATTTTAGAATTCCTTCTCATGTGCCATCTCTACAGGCAC
CCATCAGAAAAAGCATACTGCCGTTACCGTGAACTGGTTGTAAAAGAGAACTATCTATTTGCACCTTAAAAGA
CAGCTAGATTTTGCTGATTTTCTTCTTTCGGTTTTCTTTGTGACGAATAATATGTGAGAGGACAGATTGTTAGAT
ATGATAGTATAAAAAATGGTTAATGACAATTGAGAGCGAGGAGATTCTGTAACTTAAATTTACTATAAATGAA
ATTGATTTGTCAAGAGGATAAATTTTAGAAAAACCCCAATACCTTATAACTGTCTGTTAATGCTTGCTTTTTCTC
TACCTTTCTTCTTGTTTCAGTTGGGAAGCTTTTGGCTGCAAGTAACAGAACTCCTAATTCAAATGGCTTAAGC
AATAAGGAAATGTATATTCCACATAACTAGACGTTCAAACAGGCCAGGCTCCAGCACTTCAGTACGTCACCAGG
GGATCTGGGTCTTCCCAGCTCTCTGCTCTGCCATCTTTAGCGCTGGCTTCATTCTCAGACTCTGGTAGCATGAT
GGCTGTAGCTGTTTCATGGGCCCTTCAAACCTCATAGCAACCAGAGGAAGAAAATGAGCCATTTTTTGAGTCTC
CTTCATAGACTTGAATAACTCTTTTTTACAGAGCTTCTACAGCAAACCTCTCCTCATGTCTCCTCATGTCTTATTG
TTCAGAAATGGGTAATGTGGCCATTTACCAGTCACTGCCAACAACAACGAGGTTCCATAATTGTCTCTGAGTA
ACCTTTTGAATGGAGAGGGTGTGGTCAGTCTACAACTGAACACTGCAGTTCTGCGCTTTTTACCAGTGAAAA
AATGTAATTATTTTCCCCTCTTAAGGATTAATATTCTTCAAATGTATGCCTGTTATGGATATAGTATCTTTAAAA
TTTTTTATTTTAAATAGCTTTAGGGGTACACACTTTTTGCTTACAGGGGTGAATTGTGTAGTGGTGAAGACTCGGC
TTTTAATGTACTTGTACCTGAGTGATGTACATTGTACCCAATAGGTAATTTTCATCCATTACCCTCCTTCCGC
CCTCTTCCCTTCTGAGTCTCCAACATCCCTTATACCACTGTGTATGTTCTGTGTACCTACAGCTAAGCTTCCAC
TTATAAGTGAGAACATGCAGTATTTGGTTTTCCATTCTGAGTTACTTCCCTTAGGATAACAGCCCCCAGTTCCG
TCCAAGTTGCTGCAAAAATACATTATTCTTCTTTATGGCTGAGTAATAGTCCATGGTACATATATACCACATTTTC
TTTATCCACTTATCAGTTGATGGACACTTAGGTTAATTCCATTCAATTCATTCAATTTAAGTATATTTGTAAGG

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FIGURE 1295B

AGCTAAAGCTGAAAATTAAATTTTAGATCTTCAATACTCTTAAATTTTATATGTAAGTGGTTTTATATTTTCA
CATTGAAATAAAGTAATTTTATAACCTTGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1296

MLLRSKPALPPPLMLLLLGPLGPLSPGALPRPAQAQDVVDLDDFFTQEPLHLVSPSFLSVTIDANLATDPRFLILL
GSPKLRTLARGLSPAYLRFGGTKTDFLIFDPKKESTFEERSYWQSQVNQDICKYGSIPPDVEEKLRLWPYQEQ
LLREHYQKKFKNSTYSRSSVDVLYTFANCGLDLIFGLNALLRTADLQWNSSNAQLLLDYCSSKGYNISWELGNE
PNSFLKKADIFINGSQLGEDFIQLHKLLRKSTFKNAKLYGPDVGQPRRKTAKMLKSFLKAGGEVIDSVTWHHYL
NGRTATREDFLNPDVLDIFISSVQKVFQVVESTRPGKKVWLGETSSAYGGGAPLLSDTFAAGFMWLDKLGLSARM
GIEVVMRQVFFGAGNYHLVDENFDPLPDYWLSLLFKKLVGTVLMAVQGSKRRLRVYLHCTNTDNPYKEGDL
TLYAINLHNVTKYLRLPYPFSSNKQVDKYLLRPLGPHGLLSKSVQLNGLTLKMVDDQTLPLMEKPLRPGSSSLGLP
AFSYSFFVIRNAKVAACI

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FIGURE 1297

GGCTGCGCTTCCCTGGTCAGGCACGGCACGTCTGGCCGGCCGCCAGGATGCAGGCCCCGCACAAGGAGCACCTGT
ACAAGTTGCTGGTGATTGGCGACCTGGGCGTGGGGAAGACCAGTATCATCAAGCGCTACGTGCACCAGAACTTCT
CCTCGCACTACCGGGCCACAATCGGCGTGGACTTCGCGCTCAAGGTGCTCCACTGGGACCCGGAGACTGTGGTG
GCCTGCAGCTCTGGGATATCGCAGGTCAAGAAAGATTTGAAACATGACGAGGGTCTATTACCGAGAAAGCTATGG
GTGCATTTATTGTCTTCGATGTCACCAGGCCAGCCACATTTGAAGCAGTGGCAAAGTGGAAAAATGATTTGGACT
CCAAGTTAAGTCTCCCTAATGGCAAACCGGTTTCAGTGGTTTTGTTGGCCAACAAATGTGACCAGGGGAAGGATG
TGCTCATGAACAATGGCCTCAAGATGGACCAGTTCTGCAAGGAGCACGGTTTCGTAGGATGGTTTGAAACATCAG
CAAAGGAAAAATATAAACATTGATGAAGCCTCCAGATGCCTGGTGAACACATACTTGCAAATGAGTGTGACCTAA
TGGAGTCTATTGAGCCGGACGTCGTGAAGCCCCATCTCACATCAACCAAGGTTGCCAGCTGCTCTGGCTGTGCCA
AATCCTAGTAGGCACCTTTGCTGGTGTCTGGTAGGAATGACCTCATTGTTCCACAAATTGTGCCTCTATTTTTAC
CATTTTGGGTAAACGTCAGGATAGATATAACCACATGTGGCAAGCCAAAGATCTATGCCTCTGTTTTTCAATGAG
AGAGAAATAGCAAATGTTCTTTCTATGCTTTCCTCACCATCATCACAGTGTTTACAACTTTTGAAAATATTTAG
TCTGTTACAACTTCTGTCTATGTAGCTGACCAAAATCCTGCAGGGCCACAGTCGGCACTGTTATTTGCTTCTTTT
AATCAGCAAAGGCCTCAAGTCTTAAATAAAAAGGGGAGAAGAACAACAACTAGCTGTCAAGTCAAGGACTGGCTTTC
ACCTTGCCCTGGTGCTTTTTTCCAGATTTCAATATATTCTCTGATGGCCTGACAGGCCTATTAAGTAGATGTGAT
ATTTTCTTCCAAGATGACCTCCATTCTCGGCAGACCTAAGAGTTGCCTCTGAGTTAGCTCTTTGGAATCGTGAAC
ACAGGTGTGCTATATTGTCCTTGTCTTAAGTGTCACTTGCCATGGCCTGAATGTTGGCTTAACTGAATATTGTAT
GAAAAGACATGCCTCCATATGTGCCTTTCTGTTAGCTCTCTTTGACTCAAGCTGTGGGGCTCCTCTATACATGCT
ATACATGTAATATATATTATATATATTTTTTGCAAGTGAACAATAAAACATTAAAAGATAAAA

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FIGURE 1298

MQAPHKEHLYKLLVIGDLGVGKTSIIKRYVHQNFSSHYRATIGVDFALKVLHWDPETVVRLQLWDIAGQERFGNM
TRVYYREAMGAFIVFDVTRPATFEAVAKWKNDLDSKLSLPNGKPVSVVLLANKCDQGKDVLMMNGLKMDQFCKEH
GFVGVWFETSAKENINIDEASRCLVKHILANECDLMESIEPDVVKPHLTSTKVASCSCGCAKS

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FIGURE 1299

GGCACGAGGAGCAGACGCCGGGGCTGCGCGCTGGGAGCTGCGGTCTCCGGCCATGGCCCCGCTCCGCCCCCGCC
GCCTCCTTCTCGCCCTCCGAGGTCCAGCGGCGCCTGGCGGGCGGCGCGTGCTGGGTCCGCCGCGGGGCCCGCCTC
TACGACCTCTCCAGCTTCGTGCGGCACCACCCGGGGGGCGAGCAGCTGCTGCGGGCCAGGGCGGGCCAGGACATC
AGCGCCGACCTGGACGGGGCCCGCACAGGCACTCGGCCAACGCGCGCCGCTGGCTGGAGCAGTACTACGTGGGA
GAGCTCCGCGGGGAGCAGCAGGGCTCCATGGAGAACGAGCCTGTAGCCCTTGAGGAACTCAGAAGACAGATCCT
GCTATGGAACACGGTTCAAAGTGGTGGATTGGGACAAGGACCTGGTGGACTGGCGAAAGCCTCTCCTGTGGCAG
GTGGGCCACTTGGGAGAGAAGTACGATGAGTGGGTTACCAGCCGGTGACCAGGCCCATCCGCCTCTTCCACTCA
GACCTCATTGAGGGCCTCTCTAAGACTGTCTGGTACAGTGTCCCATCATCTGGGTGCCCTGGTGTGTATCTC
AGCTGGTCTACTACCGAACCTTTGCCCAGGGCAACGTCCGACTCTTACGTCAATTTACAACAGAGTACACGGTG
GCAGTGCCCAAGTCCATGTTCCCCGGGCTCTTCATGCTGGGGACATTCTCTGGAGCCTCATCGAGTACCTCATC
CACCGCTTCTGTTCACATGAAGCCCCCAGCGACAGCTATTACCTCATCATGCTGCACTTCGTATGCACGGC
CAGCACCACAAGGCACCCCTTCGACGGCTCCCGCCTGGTCTTCCCCCTGTGCCAGCCTCCCTGGTGATCGGCGTC
TTCTACTTGTGCATGCAGCTCATCCTGCCTGAGGCAGTAGGGGGCACTGTGTTTGCGGGGGGCCCTCCTGGGCTAC
GTCTCTATGACATGACCCATTACTACCTGCACCTTTGGCTCGCCGCACAAGGGCTCCTACCTGTACAGCCTGAAG
GCCCCACCACGTCAAGCACCACCTTTGCACATCAGAAGTCAGGATTTGGTATCAGCACTAAATTGTGGGATTACTGT
TTCCACACCCCTCACTCCAGAGAAACCCACCTGAAGACGCAGTGAACAACCTCCACCCCTCCGTCCTGCCCTCAG
CCCCGGCCCTGGCCCCCTTCCCGACCCCAACCGCCATTAGACCCCATTAAGAAGGTTGGCTTGGCCAGGCAGGAT
GGGCTGTGTCCGGCCCTGCAGCCTAGTGGAAGGTGCTGAGGGGGCCCTGAGGCAGGACCGCCCTCCTGACCCCTG
GTAGGAGGGTCACATCCACTTGGTGGCCAGGTGGCCCTTGGTGACCCACTTCTTCTGGAGCGTCCCTGCCTAGA
GCTCAGCCACAGGACTGCTTCAGGCCGTGGCCACAGGTAGCAGCCGCAAGGGGAAATGAAGAAAACCTGAGCCCT
CGTGGCCACCTGTGTACCCCTTGTGCCTTAGCCTCATGGGCTGCCTAGGAGCTGCCTGCACGGCACAGCTCGCTT
TCACAGTCAGAAGTGGGTCTGTGGGATCTGTGGTCCCTGTCTCCCTGCTGTCCCTTCTGGGGAGGCTTTGGTGG
CTCTGAGGTGGACAAAGAGCTCTCGCAAGAAGAGACAGCGTGATGCCTCCACAGTCCACCCAGACCCCTGGGGC
AGCCCTCTGGCCCTGCCAGCTGCCTGCGTCGTTGGGCCAGGGTGGCTGGCAGGAGTCCAGCTGCTTGCTTTA
GGACCTCGCAGCTTTTCTTGCCGTCCCTCCCTGCCTCCAGAATCACAGCCCTTCTCCCAAGGGAGGCTGAGGA
GGCTTCTCCACAGTGGCAGCCCCACCCGCTCCCTGGCCATTCTTGGCCTCCACCCCGCTCAGGCCCTACTCGG
GCGCTCCAGAAGGAGCCACCTCTCAGTGCCTCACCTCCCCCTGCCTCCAGCCTCCGCAGATGAGGTTCCCTGCC
CCTTCTCCTCGTAACCAAAACCCCTCACTGCTCCCAGGACGGTCTTATTTATAAACCAGATACATGTTCTTAGTC
TGGTCCCAGACCAAGGAGCTGGTCAGACGGCCCTTTCTAATCCTACATGTTGAGCTTATGTAAAAAATGTTGTTT
CCTCCTGTTTTTGGTTCCCTTTTACCCACAAACCATTACTACTTGAACTTAAAAAACTCGCCAAGTGTAAGG
CTAAAGAGAAGCAGTTTGACGGACCTTGTGATTTGTACTGTTTGCTGCGGAGCTATTTAAAGATTTTGAATAAA
TATACAAAACCTACGGTTGTGAAATAAAAACTTAAATTGTATATTTGAAAAATAAAACACTGAAAAGAAACCAA
AAAAAAAAAAAAAAAAA

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FIGURE 1300

MENEPVALEETQKTDPEPRFKVVDWDKDLVDWRKPLLWQVGHLEGEKYDEWVHQPVTRPIRLFHSDLIEGLSKT
VWYSVPIIWVPLVLVLSWSYYRTFAQGNVRLFTSFTTEYTVAVPKSMFPGLFMLGTFLWSLIEYLIHRFLFHMKP
PSDSYYLIMLHFVMHGQHHKAPFDGSRLVFPPVPASLVIGVFYLCMQLILPEAVGGTVFAGGLLGYVLYDMTHYY
LHFGSPHKGSYLYSLKAHHVKHHFAHQSGFGISTKLWDYCFHTLTPEKPHLKTQ

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FIGURE 1301

TATTTTGTGATGTGTTGAACCTCGATTAAGATTGCATTATGACATTCTTGAAGACCGAGTTCCATCAGGACTT
ATTGTTGACTACCACAATCTGTTGTCTCAATGTGAGGAGAGTTACAGGAAATTTTAAATCTGAGAAGCAGTTTG
TCAAATTGTAACCTGACTCCGAGCAGGAAAATATCTCCATGTTGGAAGGGTTAAATTTGTATTCCGAGATGGAA
CAGTTGAAACAAAAGCTGAAACTCATTGAGAATCCTTTGTTGAGGTATGTGTTTGTTATCAGAAGAATTCTAAC
ATCCAAGCAAAGGGTGTCCGTTCCAGCGGTGAGAAGATCACTCATGTGGTCTCCTCCACCATGATGGCTGGTCTC
CTGCGGTCCCTGCTTACGGACAGGCTTTGCCAGGAGCCTGGTGAGGAAGAAAGAGAAATTCAGTTCCATAGTGAT
CCATTGTCTGCTATAAATGCCTGCTTCGAAGGTGACACTGTTATTGTTTGTCTGGCCATTATGTGGTACATGGC
ACTTCTCCATTGTGACTCCATTGAGTTGGAAGGATATGGCCTACCAGATGACATTGTGATAGAAAAGAGGGGC
AAAGGCGACACTTTTGTGGACTGCACTGGTGCTGATATTAATCTCAGGCATAAGATTTGTTTCAGCATGATGCT
GTAGAGGGAATCTTAATTGCTCACCCTGGTAAGACTACGCTGGAAAATCTGTGTGCTGAGTGTGAGACGACCGGA
GTCACAGTGCAGGACATCAGCAGAGTTTCTAATGAAGAACTCGGATTTATATGGCGCCAAGGGTGTGGTATAGAA
ATCTACCTGGGAGTCAGTGCACCCTGAGTGACAATGGGATCCATCACTGCAAGGAAGGGATCCTCATTAAAGGAC
TTCTTAGATGAACATTATGACATTCCCAAGATATCCATGGTGAATAATATAATACATAATAATGAAGGTTATGGT
GTTGTCTTGGTGAAACCTACAATCTTCTGACCTGCAAGAAAATGCTGAAGATGGAAGTGAAGAAAATAAAGCG
CTTAAATTCAGACAAGTGGAGAGCCAGATGTGGCTGAAAGAGTGGATCTAGAAGAGCTGATTGAGTGTGCAACT
GGTAAATGGAGCTTTGTGCAAGAACTGACCTTCTGAGCAAGTGCAGGGAAAATGTGAAATTGTAAATGAACATA
ATTGCTGCCTCCACACAGAAAGGCCAGATAAAGAAGAAAAGGTTGAGTGAAGTGGGGATCAGCAAGCTGATGAC
AACTTAATGTCACAGGAGATGTTTGTGGGATTGTGGGGAACCAGTTCAAGTGGAAATGGGAAAGGTAGTTTTGGC
ACATTTCTTTTCTGACTACAGTGTGTAAGTAGATAGCAAAATACTGGATTTTGCACATGCTGCCCTAAGAATCA
CTGCTGCCATTGTAGTTTGTCTGTATTGTCTGTATTTTATATTTGATTATTTGGGCTTGAGTGAAAGGTAGATTTA
TTTCCATTTGCAGGTGTTGCACATAAAACACTCCCTCTTTATAAGAAAAATCATAAATGCATATAAAATAGAAAA
TATTTGGAGATTGCTTATCTGAAAGTCTTGCTTTCTTATACACATGGTTCTCTCATATTAAGCCTGGTGGTTACT
TTTTAGTGTAATTACCTTTAGCACTTCAAAGACGAGGAAGTAAGGAAGGGAATGCAAGACTAGTGCATAAAAAATG
CAATAGGTGTATATGTACAGCAATCTTCTTAGAGTTGCCTTTTTCATCCCAATTACAGTGAGTCTGATTTCCATC
CTGTATTTGCATAATACTTGTCTTAAATAAAAGCTTTTATGATTGGGAATTTATCTGCCTAATCAGACTTATTA
TTGAGACGTCAATGGGACGCATTTTTCTGTTGAGCTATGCAGTCGTCAAAACAGCGATAGACAGCATAGGAGGTT
TGAAGCAGAAATGAAATGTGTTATTTCAGAGCCAATGTTGTACATAGAGCATTTTCACTATTGCTGAATGGGAATG
ATTAAAAACAAGGTATTTTTCGGGCCAGGCGGTGGCTCACGCTTGTAATCGCAGCACTTTGGGAGGCTGAGGCAG
GAGGATCACTTGAGCCCAGGAGTTCAAGACTAGCCTAGGCAACATAGTGAGACCCTGTCTCTACTAAAAATAAAT
TTAAAAAAATTAGCTGAGTGTGGTGGTGCATGCATGTAGTTCCAGCTACTCAGGAGGCTGAGGCTAGAGGATCC
TTGAGCCCAGGAGGTTGAGGCTGCAGTGAGGTGTGATTGCGCCACTGCATTCCAGCTTGGGCGACAGAGCGAGAC
CCAGTCTCAAAAAAAAAAAAAAGTATTTTCTCTTACCGTTACAGTATTCTGATTATATTACTGACACAGTCAA
AATGATTAAGTGTACACCTGTATCTGCTGGGTGTTCTTGTATCATATTGTAAACAGCTTTAAAAATATTTAT
ATTTTAAAACTGTATGTGACATTAATATGCCTAATGATTAAATATATAGTGATGAAATAAAAAAAAAAAAAAAA
AAAAA

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FIGURE 1302

MVEGLKLYSEMEQLKQKLKLIENPLLRVVFQYQKNSNIQAKGVRSSGQKITHVVSSTMMAGLLRSLLTDRLCQEP
GEEEREIQFHS DPLSAINACFEGDTVIVCPGHYVVHGTF SIADSI ELEGYGLPDDIVIEKRGKGDTFVDCTGADI
KISGIRFVQHDAVEGILIAHRGKTTLENCVLQCETTGVTVRTSAEFLMKNSDLYGAKGAGIEIYPGSQCTLS DNG
IHHCKEGILIKDFLDEHYDIPKISMVNNIIHNNEGYGVVLVKPTIFSDLQENAEDGTEENKALKIQTSGE PDVAE
RVDLEELIECATGKMELCARTDPSEQVEGNCEIVNELIAASTQKGQIKKKRLSELGITQADDNLMSQEMFVGIVG
NQFKWNGKGSFGTFLF

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FIGURE 1303

AGCCCGGCCAGGCACCCCTGCAGCATGGCCTGGAACACCAACCTCCGCTGGCGGCTGCCGCTCACCTGCCTGCTC
CTGCAGGTGATTATGGTGATTCTCTTCGGGGTGTTTCGTGCGCTACGACTTCGAGGCCGACGCCCACTGGTGGTCA
GAGAGGACGCACAAGAACTTGAGCGACATGGAGAACGAATTCTACTATCGCTACCCAAGCTTCCAGGACGTGCAC
GTGATGGTCTTCGTGGGCTTCGGCTTCCTCATGACTTTCTGCAGCGCTACGGCTTCAGCGCCGTGGGCTTCAAC
TTCCTGTTGGCAGCCTTCGGCATCCAGTGGGCGCTGCTCATGCAGGGCTGGTCCACTTCTTACAAGACCGCTAC
ATCGTCGTGGGCGTGGAGAACCTCATCAACGCTGACTTCTGCGTGGCCTCTGTCTGCGTGGCCTTTGGGGCAGTT
CTGGGTAAAGTCAGCCCCATTAGCTGCTCATCATGACTTTCTTCCAAGTGACCTCTTCGCTGTGAATGAGTTC
ATTCTCCTTAACCTGCTAAAGGTGAAGGATGCAGGAGGCTCCATGACCATCCACACATTGGCGCCTACTTTGGG
CTCACAGTGACCCGGATCCTCTACCGACGCAACCTAGAGCAGAGCAAGGAGAGACAGAATTCTGTGTACCAGTCG
GACCTCTTTGCCATGATTGGCACCCCTCTTCTGTGGATGTACTGGCCAGCTTCAACTCAGCCATATCCTACCAT
GGGGACAGCCAGCACCGAGCCGCCATCAACACCTACTGCTCCTTGGCAGCCTGCGTGCTTACCTCGGTGGCAATA
TCCAGTGCCCTGCACAAGAAGGGCAAGCTGGACATGGTGACATCCAGAATGCCACGCTCGCAGGAGGGGTGGCC
GTGGGTACCGCTGCTGAGATGATGCTCATGCCTTACGGTGCCCTCATCATCGGCTTCGTCTGCGGCATCATCTCC
ACCCTGGGTTTTGTATACCTGACCCCATTCCTGGAGTCCCGGCTGCACATCCAGGACACATGTGGCATTAAACAAT
CTGCATGGCATTCTGGCATCATAGGCGGCATCGTGGGTGCTGTGACAGCGGCCTCCGCCAGCCTTGAAGTCTAT
GGAAAAGAAGGGCTTGTTCCATTCTTTGACTTTCAAGGTTTCAACGGGGACTGGACCGCAAGAACACAGGGAAAG
TTCCAGATTTATGGTCTCTTGGTGACCCTGGCCATGGCCCTGATGGGTGGCATCATTGTGGGGCTCATTTTGAGA
TTACCATTCTGGGGACAACCTTCAGATGAGAACTGCTTTGAGGATGCGGTCTACTGGGAGATGCCTGAAGGGAAC
AGCACTGTCTACATCCCTGAGGACCCACCTTCAAGCCCTCAGGACCTCAGTACCCTCAGTACCCATGGTGTCC
CCACTACCCATGGCTTCCTCGGTACCCTTGGTACCCTTAGGCTCCCAGGGCAGGTGAGGAGCAGGCTCCACAGACT
CTCCTGGGGCCCAGAGGAGCTGGTGCTGACCTAGCTAGGGATGCAAGAGTGAGCAAGCAGCACCCCCACCTGCTG
GCTTGGCCTCAAGGTGCCTCCACCCCTGCCCTCCCCTTCATCCCAGGGGTCTGCCTGAGAATGGAGAAGGAGAA
GCTACAAAGTGGGCATCCAAGCCGGGTTCTGGCTGCAGAAGTTCTGCCTCTGCCTGGGGTCTTGGCCACATTGGA
GAAAAACAGGCTCAAAGTGGGGCTGGGACCTGGTGGGTGAACCTGAGCTCTCCAGGAGACAACCTAGCTGCCAG
TCACCACCTATGAGGCTCTTCTACCCCGTGCTGCACCTCGGCCAGCATCTCCTATGCTCCCTGGGTCCCCCAGA
CCTCTCTGTGTTGTGTGCGTGGCAGCCTCCAGGAATAAACATTCTTGTGTCTTTGTAAAAA

AA

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FIGURE 1304

MAWNTNLRWRLPLTCLLLQVIMVILFGVFVRYDFEADAHWWSE¹RT²HK³NLS⁴DMENEFY⁵RY⁶PS⁷FQ⁸DV⁹HV¹⁰MF¹¹VGF¹²G
FLMTFLQRYGFS¹³AVGFN¹⁴FL¹⁵LA¹⁶AFGI¹⁷QWALLMQGWFH¹⁸FLQ¹⁹DRYI²⁰VVG²¹VEN²²LINAD²³FC²⁴VAS²⁵VC²⁶VAF²⁷GAV²⁸L²⁹GK³⁰V³¹SP³²IQ³³
LLIMTFFQ³⁴VT³⁵LF³⁶AVNE³⁷FILLNLLK³⁸VKDAGGSMTI³⁹HT⁴⁰FGAY⁴¹FGL⁴²TV⁴³TRILY⁴⁴RRN⁴⁵LEQ⁴⁶SKERQ⁴⁷NSV⁴⁸YQ⁴⁹SDL⁵⁰FAMIG⁵¹T⁵²
LFLW⁵³MYW⁵⁴PSFNSAISY⁵⁵HGDSQHRAAINTYCSLAACV⁵⁶LTSVAISSALHKK⁵⁷GK⁵⁸LDMV⁵⁹HIQ⁶⁰NATLAGGVAVGTAAEM⁶¹M
LMPY⁶²GALIIGFVCGIISTLGFVYLTPFLESRLHIQ⁶³DTCGINN⁶⁴LHGIPGIIGGIVGAVTAASASLE⁶⁵VYGKEGLV⁶⁶HS
FDFQGFNGDWTARTQ⁶⁷GKFQIYGLLVTLAMALMGGIIVGLILRLPFWGQ⁶⁸PSDENC⁶⁹FEDAVYWEMPEGNSTVYIPED
PTFKPSG⁷⁰PSVPSVPMVSPLPMAS⁷¹SVPLV⁷²P

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FIGURE 1305

[illegible]

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FIGURE 1306

MVQQDVQGLKAQSAGLSISQHLLSGCHGNIIPNPTTLSSRETAIIRDLGFPRGSWASFLKRLLLSSATRNRPA
HPQHLCGDEGQSPTVPLPVLMRKGGKKTYPERLQYGHDTFKKPVLWSDQKPECGEGQQPASEQPARRGVVNLGL
VPRHDWLRACSTLWNVPWASVAFLSFAGRGLLPLWQLVS

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FIGURE 1307

GGAAGTTTAGGTTAACTGTCTTAAATTTCCAAAGCTGTAATCATTATTTTCATTCTCAAAGTGATGGCCTTGTGT
TTTGCTCCTCTCCTCCAGGGCCAGACTGAGCCCAGGTTGATTTCAGGCGGACACCAATAGACTCCACAGCAGCTC
CAGGAGCCCAGACACCGGCGGCCAGAAGCAAGGCTAGGAGCTGCTGCAGCCATGTCGGCCCTCAGCCTCCTCATT
CTGGGCCTGCTCACGGCAGTGCCACCTGCCAGCTGTCAGCAAGGCCTGGGGAACCTTCAGCCCTGGATGCAGGGC
CTTATCGCGGTGGCCGTGTTCCCTGGTCCTCGTTGCAATCGCCTTTGCAGTCAACCACTTCTGGTGCCAGGAGGAG
CCGGAGCCTGCACACATGATCCTGACCGTCGGAAACAAGGCAGATGGAGTCCTGGTGGGAACAGATGGAAGGTAC
TCTTCGATGGCGGCCAGTTTCAGGTCCAGTGAGCATGAGAATGCCTATGAGAATGTGCCCGAGGAGGAAGGCAAG
GTCCGCAGCACCCCGATGTAACCTTCTCTGIGGGCTCCAACCCCAAGACTCCCAGGCACATGGGGATGGATGTCCAG
TGCTACCACCCAAGCCCCCTCCTTCTTTGTGTGGAATCTGCAATAGTGGGCTGACTCCCTCCAGCCCCATGCCGG
CCCTACCCGCCCTTGAAGTATAGCCAGCCAAGGTTGGAGCTCAGACCGTGTCTAGGTTGGGGCTCGGCTGTGGCC
CTGGGGTCTCCTGCTCAGCTCAGAAGAGCCTTCTGGAGAGGACAGTCAGCTGAGCACCTCCCATCCTGCTCACAC
GTCTTCCCCATAACTATGGAAATGGCCCTAATTTCTGTGAAATAAAGACTTTTTGTATTTCTGGGGCTGAGGCT
CAGCAACAGCCCCCTCAGGCTTCCAAAA

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FIGURE 1308

MSALSLLILGLLTAVPPASCQQGLGNLQFWMQGLIAVAVFLVLVAIAFAVNHFWCQEEPEPAHMILTVGNKADGV
LVGTDGRYSSMAASFRSSEHENAYENVPEEEGKVRSTPM

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FIGURE 1309

TTTGCCTCGGGGAATTAAAAGAGGGGAAAAAAGCCCGAAGAAAACACGCCCCAAACAAAACGCAAGGAGAG
GAGGGCGCGCGGCCTGCAGCCCTCGCCCGCGTCCCCGGCCGCGGCGTGATGCGCGCGGACCAGCCCGCGACGCCC
GGGCTGCCGCTGTCCCGCACCTGGACGCTGGCGCGGTGGCCGCGCCCCAGCCTCGATCGCTCGCCGCGGCGACT
CGGCCCCAGGCTTCCGGCGCCGGTGGGGGCCCTCGCTCTCCATGGGGCTGAGGGACTGGCTGAGAACCGTGTGCT
GCTGCTGCCGGTGCAGTGCTTGGAGGAGCGCGCCCTGCCTGAGAAGGAGCCCCCTCGTCAGTGATAACAATCCAT
ATTCTCATTTGGAGCAACTCTGGTGAGGGATGATGAGAAGAATTTATGGAGTATGCCCCATGATGTGTCCCACA
CAGAGGCAGACGACGACAGAACCCTGTACAATTTGATAGTCATTTCGTAATCAGCAGGCCAAAGACTCAGAGGAGT
GGCAGAAGCTCAACTATGATATCCATACCCTGCGGCAGGTTTGAAGGGAAGTAAGAAACAGATGGAAGTGCATCT
TAGAAGATTTAGGTTTTCAAAGGAAGCTGACTCTTTGTTGTCAGTGACTAAACTCAGCACCATCAGTGATTCTA
AAAAACACAAGGAAAGCTCGAGAGATGTTGTTAAACTGGCTGAAGAAACCAGTATTTTCCCAACAAGTTGGGAGC
TCTCAGAGAGATATCTCTTTGTTGTGGACCGTCTCATTGCACCTTGATGCTGCAGAAGAGTTCTTTAAGCTTGCTC
GTCGAACCTTACCCCAAGAAGCCTGGGGTTCCATGCCTGGCAGATGGCCAGAAAGAACTGCACCTGTGGGGGGACC
TCTCATGCAGACTTGACATATGCAGGGAGTATTGCACTGAAGATCTTTGCTGGACCTTCTTCTCTTCAGAAGAT
AATTTTCAAAGGGAGCAATGCTGTGAATGCAGCTTGCTTCTCTACAGATTGAGAAGTCCAGCTTCAAAGTT
ACTTGCCACTTAAGCAAGGAACTTGTCAAGAGATCATGGTTCATGTTACTGAAAAGACTTTAAGGATTTGTAAGG
TTAATCCATAGATTGCTGAGAACAATGGAAATATTTTTATTTTACAGATTTTGCACCTTCTGAATTCAGGTTAAA
AACTAACTTGATTTAGTCTGCTTAGAGGACTGTGACTTGAAAATTTTATATACCAATGAGCTTTTGGTAGCG
TCCACAATGTTTAAAATATTTATAGGCGAGATCCGTGTTCTCCATTTATTAATGCATTGTAGACCAATTTAACT
GCTGTGTTTCAGGAAAATTTCTTCTAGTTTAATAAGCAAGCTAAAAGTTTATTTTTTATATTTAGTGCTTAATC
TTTGCCTCATGTTATGTAAAATTAGCCTGCAGATATTTCTCTCAATTCTGTAGACTCTCGCAAGATAAACATTC
AAACAGTGAAACAAACAATAAAATAAATAAACCT

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FIGURE 1310

MGLRDWLRTVCCCCRCECLEERALPEKEPLVSDNNPYSSFGATLVRDDEKNLWSMPHDVSHTEADDDRTLYNLIV
IRNQQAKDSEEWQKLNVDIHTLRQVRREVRNRWKCILEDLGFQKEADSLSVTKLSTISDSKNTRKAREMLLKLA
EETSIFPTSWELSERYLFVVDRLIALDAAEEFFKLARRTPKKPGVPCLADGQKELHLWGDLSCLAHMQGV LH

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FIGURE 1311

TATTGCTGGCTCGTTTGTGCCACCTTGCACCTTCCTGCATGCCCCACGCCTGCTGGGCAGACCCCTTACAAGCATC
TATACCAGCTTCCTGCGCCTCAACTTCAGCGGGGAAACCCTGGACAGCACTGACCCCTCCAATTTGTCCCTGATG

GCCTATGCAGCCCGAACCATGGGCAAGTTGGCCTATGAGGGGGTGTCTCCCGCAAGACCTACTTCTCTGAAGAG
GATGTCTGTGGCTGCCTGGAGGCTGGCATCAGGACGGAGGAGGAGTTTCAGCTGCTGCACATCTCCGTCGGGAT
GCCCTGAGGTTTTTCTGGCCCCATGTGTGGAGCCAGGGCGTGCAGGCACCTTCGTGTTACCGTGCCCGCCATG
CAGGAATACCTGGCTGCCCTCTACATTGTGCTGGGTTTGC GCAAGACGACCCTGCAAAAGGTGGGCAAGGAAGTG
GCTGAGCTCGTGGGCCGTGTGGGGAGGACGTCAGCCTGGTACTGGGCATCATGGCCAAGCTGCTGCCTCTGCGG
GCTCTGCCTCTGCTCTTCAACCTGATCAAGGTGGTTCCACGAGTGTTTGGGCGCATGGTGGGTAAAAGCCGGGAG
GCGGTGGCTCAGGCCATGGTGTGAGATGTTTCGAGAGGAGGACTACTACAACGATGATGTTCTGGACCAGATG
GGCGCCAGTATCCTGGGCGTGGAGGGCCCCGGCGCCACCCAGATGAGCCCCCTGAGGATGAAGTCTTCGAGCTC
TTCCCCATGTTTCATGGGGGGGCTTCTCTCTGCCCCACAACCGAGCTGTGCTAGCTCAGCTTGGCTGCCCCATCAAG
AACCTGGATGCCCTGGAGAATGCCAGGCCATCAAGAAGAAGCTGGGCAAGCTGGGCCGGCAGGTGCTGCCCCCA
TCAGAGCTCCTTGACCACCTCTTCTTCCACTATGAGTTCCAGAACCAGCGCTTCTCCGCTGAGGTGCTCAGCTCC
CTGCGTCAGCTCAACCTGGCAGGTGTGCGCATGACACCAGTCAAGTGACAGTGGTGGCAGCTGTGCTGGGCAGC
GGAAGGCATGCCCTGGATGAGGTGAAGTTGGCCTCCTGCCAGCTAGATCCTGCTGGGCTGCGCACACTCCTGCCT
GTCTTCCTGCGTGCCCGGAAGCTGGGCTTGCAACTCAACAGCCTGGGCCCTGAGGCCCTGCAAGGACCTCCGAGAC
CTGTTGCTGCATGACCAGTGCCAAATTACCACACTGCGGCTGTCCAACAACCCGCTGACGGAGGCAGGTGTTGCC
GTGCTAATGGAGGGGCTGGCAGGAAACACCTCAGTGACGCACCTGTCCCTGCTGCACACGGGCCCTGGGGACGAA
GGCCTGGAGCTGCTGGCTGCCAGCTGGACCGCAACCGGCAGCTGCAGGAGCTGAACGTGGCGTACAACGGTGCT
GGTGACACAGCGGCCCTGGCCCTGGCCAGAGCTGCCCCGGGAGCACCTTCCCTGGAAGTGTACACCTCTACTTC
AATGAGCTGAGCTCAGAGGGCCGCCAGGTCTTGCGAGACTTGGGGGGTGTGCTGCTGAAGTGGTGGCCGGGTGGTG
GTGCTACTGACAGAGGGGACGGCGGTGTCAGAATACTGGTCAGTGATCCTCAGTGAAGTCCAGCGGAACCTCAAT
AGCTGGGATCGGGCCCCGGTTTCAGCGACACCTTGAGCTCCTACTGCGGGATCTGGAAGATAGCCGGGGTGCCACC
CTTAATCCTTGGCGCAAGGCCCAGCTGCTGCGAGTGGAGGGCGAGGTGAGGGCCCTCCTGGAGCAGCTGGGAAGC
TCTGGAAGCTGAGACACTGGCGGCAGGCACCTAGCTATGTGACCACTGGCCCTAAACCTTTTCCCTCTGTGGCCT
CCTGGCTTGCACTGCTCCCTCTAGAAAGATTCTTTCAGGTCTGGAGGCAGAGGAATGGGCATAGCTGAGCCAGTT
GCCCTCCTAGGGCATGTTTGACCAGGACTGAGTCTGGAATCTCCAAGTTAAAGATGGTGAATCAATGCTTCGGGC
TTGGAGATGGAACATGCCCTCCTCTCCATTTCAGCTAGAAGGACCAAAGCATGTGGCATTGATGGCCAGAGTGCC
CTGAAGCACCCTACCAACCTTGCCCTCCCCCTCCTCTCAAAGAGCCTCTGATTGTGTACCAAGGGGCTCACATC
TTATGTCTGCCATGCCAGGGGTGTGCGCATCCAGATGTGTTGGAAGCTTCCCCCTCCTGCCTTATGCTCACCTGTG
GACACCGAGGATGCCCTCACATTGGTGCTCTCTCCTCATCCTCATGCCCCCTTTGCCACAATGGTATGATGGCTT
GGTAGCCCCCTCGAGGCAGATGCACCTGACTTGCTGCTATTAAAAAGCCGTGTGCCTTCTACCAAAAAAAAAAAAA
AAAA

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FIGURE 1312

MAYAARTMGKLAYEGVSSRKTYFSEEDVCGCLEAGIRTEEEFQLLHIFRRDALRFFLAPCVEPGRAGTFVFTVPA
MQEYLAALYIVLGLRKTTLQKVGKEVAELVGRVGEDVSLVLGIMAKLLPLRALPLLFNLIKVVPRVFGRMVGKSR
EAVAQAMVLEMFREEDYYNDDVLDQMGASILGVEGPRRHPDEPPPEDEVFELFPMFMGGLLSAHNRAVLAQLGCP
KNLDALENAQAIAKKLGLGRQVLPPSELLDHLFFHYEFQNRFSAEVLSSLRQLNLAGVRMTPVKCTVVAAVLG
SGRHALDEVNLASCQLDPAGLRITLLPVFLRARKLGLQLNSLGPEACKDLRDLHLDQCQITTLRLSNNPLTEAGV
AVLMEGLAGNTSVTHLSLLHTGLGDEGLELLAAQLDRNRQLQELNVAYNGAGDTAALALARAAREHPSLELLHLY
FNELSSEGRQVLRDLGGAAEGGARVVVSLTEGTAVSEYWSVILSEVQRNLNSWDRARVQRHLELLLRDLED
SRGATLNPWRKAQLLRVEGEVRALLEQLGSSGS

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FIGURE 1313

TTCCTCAGAAACGAGCAAACCTGAAAGCTACTCTCTCAGCTTCAGAGGGAAAAAATGCTTGTAGATTTCTGGACT
TGGGAGCAGACATTTCAAGAACTAATCCAAGAGGCAAAACCCCGGGCCACATGGACGCTGAAGTTGGATGGCAAC
CTTCAGCTAGACTGCCTGGCTCAAGGGTGGGAAGCAATACCAACAGAGAGCATTGGCTGGTTCCGGTGTTCCTCC
TGCCAGCGAAGTTGGGCTTCCGCCAAGTTGCAGATTCTGTGCCACACGTACTGGGAGCACTGGACATCCCAGGGT
CAGGTGCGTATGAGGCTCTTTGGCCAAAGGTGCCAGAAGTGCTCCTGGTCCCAATATGAGATGCCTGAGTTCTCC
TCGGATAGCACCATGAGGATTCTGAGCAACCTGGTGCAGCATATACTGAAGAAATACTATGGAAATGGCATGAGG
AAGTCTCCAGAAATGCCAGTAATCCTGGAAGTGTCCTGGAAGGATCCCATGACACAGCCAATTGTGAGGCATGC
ACTTTGGGCATATGTGGACAGGGCTTAAAAAGCTACATGACAAAGCCGTCCAAATCCCTACTCCCCCACCTAAAG
ACTGGGAATTCCTCACCTGGAATTGGTGCTGTGTACCTCGCAAACCAAGCCAAGAACCAGTCAGATGAGGC AAAA
GAGGCTAAGGGGAGTGGGTATGAGAAATTAGGGCCAGTCGAGACCCAGATCCACTGAACATCTGTGTCTTTATT
TTGCTGCTTGTATTTATTGTAGTCAAATGCTTTACATCAGAAATGATGAAAAATAGGCTTGCCACTTTCTCTTATT
TAATTCCATGGTAGTCAATGAACTGGCTGCCACTTTAATATAACTGAAAATTCATTTTGAGACCAAGCAGGATCA
AGTTTGTAGAATAAAACACTGGTTTCCTAGCTATCCTCTGAAAACAGTATGAAACATGACCAAGTACATAATGGAT
TTAGTAATAAATATTGTCTGAATTGCTAAAAAAAAAAAAA

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FIGURE 1314

MVVDFWTWEQTFQELIQEAKPRATWTLKLDGNLQLDCLAQGWKQYQQRAFGWFRCS SCQRSWASAKLQILCHTYW
EHWTSQGQVRMRLEFGQRCQKCSWSQYEMPEFSSDSTMRI LSNLVQHILKKYYGNGMRKSPEMPVILEVSLEGSHD
TANCEACTLGICGQGLKSYMTKPSKSLLPHLKTGNSSPGIGAVYLANQAKNQSDEAKEAKGSGYEKLGPSRDPDP
LNICVFILLLVFIVVKCFTSE

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FIGURE 1315A

ATGCCCCCTCGGCCTGGGCCATTGCTGGCTGCTAGGGGGCTCCTGCTCCATGGGGGTAGCTCTGGCCCCAGC
CCCGCCCCAGTGTGCCCCGCTGCGGCTCTCTACCGAGACCTCCTGTCTGCCAACCGCTCTGCCATCTTTCTG
GGCCCCAGGGCTCCCTGAACCTCCAGGCCATGTACCTAGATGAGTACCGAGACCGCCTCTTTCTGGGTGGCCTG
GACGCCCTCTACTCTCTGCGGCTGGACCAGGCATGGCCAGATCCCCGGGAGGTCTGTGGCCACCGCAGCCAGGA
CAGAGGGAGGAGTGTGTTTCAAAGGGAAGAGATCCTTTGACAGAGTGCGCCAACTTCGTGCGGGTGTACAGCCT
CACAACCGGACCCACCTGCTAGCCTGTGGCACTGGGGCCTTCCAGCCACCTGTGCCCTCATCACAGTTGGCCAC
CGTGGGGAGCATGTGCTCCACCTGGAGCCTGGCAGTGTGGAAAGTGGCCGGGGGCGGTGCCCTCACGAGCCCAGC
CGTCCCTTTTGCCAGCACCTTCATAGACGGGGAGCTGTACAGGGTCTCACTGCTGACTTCCTGGGGCGAGAGGCC
ATGATCTTCCGAAGTGGAGGTCTCTGGCCAGCTCTGCGTTCCGACTCTGACCAGAGTCTCTTGACAGACCCCCGG
TTTGTGATGGCCGCCCGGATCCCTGAGAACTCTGACCAGGACAATGACAAGGTGTACTTCTTCTCTCGGAGACG
GTCCCTTCGCCCCGATGGTGGCTCGAACCATGTCACTGTGAGCCGCGTGGGCCGCGTCTGCGTGAATGATGCTGGG
GGCCAGCGGGTGTGTTGAACAAATGGAGCACTTTCTCAAGGCCAGGCTGGTCTGCTCGGTGCCCGGCCCTGGT
GGTGCCGAGACCCACTTTGACCAGCTAGAGGATGTGTTTCTGCTGTGGCCCAAGGCCGGGAAGAGCCTCGAGGTG
TACGCGCTGTTTACGACCCGTAGTGCCGTGTTCCAGGGCTTCGCCGTCTGTGTGTACCATGTCAGACATCTGG
GAGGTTTTCAACGGGCCCTTTGCCACCGAGATGGGCCTCAGCACCAGTGGGGGCCCTATGGGGGCAAGGTGCC
TTCCCTCGCCCTGGCGTGTGCCCCAGCAAGATGACCGCACAGCCAGGACGGCCCTTTTGGCAGCACCAAGGACTAC
CCAGATGAGGTGCTGCAGTTTGCCCGAGCCACCCCTCATGTTCTGGCCTGTGCGGCCCTGCACATGGCCGCCCT
GTCCTTGTCAAGACCCACCTGGCCAGCAGCTACACCAGATCGTGGTGGACCGCGTGGAGGCAGAGGATGGGACC
TACGATGTCAATTTCTGGGGACTGACTCAGGGTCTGTGCTCAAAGTCATCGCTCTCCAGGCAGSGGGCTCAGCT
GAACCTGAGGAAGTGGTTCTGGAGGAGCTCCAGGTGTTTAAAGTGCCAACACCTATCACCGAAATGGAGATCTCT
GTCAAAAGGCAAAATGCTATACGTGGGCTCTCGGCTGGGTGTGGCCAGCTGCGGCTGCACCAATGTGAGACTTAC
GGCACTGCCTGTGCAGAGTGTGCTGGCCGGGACCCATACTGTGCTGGGATGGTGCCTCCTGTACCCACTAC
CGCCCCAGCCTTGGCAAGCGCCGGTTCGCCGGCAGGACATCCGGCACGGCAACCCTGCCCTGCAGTGCCTGGGC
CAGAGCCAGGAAGAAGAGGCAGTGGGACTTGTGGCAGCCACCATGGTCTACGGCACGGAGCACAAATAGCACCTTC
CTGGAGTGCCTGCCAAGTCTCCCCAGGCTGCTGTGCGCTGGCTCTTGCCAGAGGCCAGGGGATGAGGGGCCTGAC
CAGGTGAAGACGGACGAGCGAGTCTTGACACGGAGCGGGGGCTGCTGTTCCGAGGCTTAGCCGTTTCGATGCG
GGCACCTACACCTGCACCACTCTGGAGCATGGCTTCTCCAGACTGTGGTCCGCTGGCTCTGGTGGTGATTGTG
GCCTCACAGCTGGACAACCTGTTCCCTCCGGAGCCAAAGCCAGAGGAGCCCCAGCCCCGGGGAGGCCCTGGCTTCC
ACCCACCCAAAGGCCTGGTACAAGGACATCCTGCAGCTCATTGGCTTCGCCAACCTGCCCGGGTGGATGAGTAC
TGTGAGCGCGTGTGGTGCAGGGGCACCACGGAATGCTCAGGCTGCTTCCGGAGCCGGAGCCGGGGCAAGCAGGCC
AGGGGCAAGAGCTGGGCAGGGCTGGAGCTAGGCAAGAAGATGAAGAGCCGGGTGCATGCCGAGCACAAATCGGACG
CCCCGGGAGGTGGAGGCCACGT**TAGA**AGGGGGCAGAGGAGGGGTGGTCAGGATGGGGCTGGGGGGCCACTAGCAGC
CCCCAGCATCTCCCACCCACCCAGCTAGGGCAGAGGGGTGAGGATGTCTGTTTGCCTCTTAGAGACAGGTGTCTC
TGCCCCACACCGCTACTGGGGTCTAATGGAGGGGCTGGGTTCTTGAAGCCTGTTCCCTGCCCTTCTCTGTGCTC
TTAGACCCAGCTGGAGCCAGCACCTCTGGCTGCTGGCAGCCCCAAGGGATCTGCCATTGTTCTCAGAGATGGC
CTGGCTTCCGCAACACATTTCCGGGTGTGCCAGAGGCAAGAGGGTGGGTGGTCTTTCCAGCCTACAGAACA
ATGGCCATTCTGAGTGACCCTCAGAGTGGGTGTGTGGGTGCGTCTAGGGGGTATCCCGGTAGGGGGCCTGCAGGG
AGCCAGAGGGTGGAAATGGCCTCTAAGCTAGCACCCCGTAAGAAGAGCCTACCTGACCGACTTGGGGAGGGAACA
CAGAGGTGTTGGGAAGGTGGAGCAACAATGCACCTCCCTCCTGTGCGCCGTGATATCTTGGTGGCTCCCTGCC
ACTGCCACCGCCTCTTCTCCATCTGAGAATCACGGAGAGGTGTAGATAATCTAGAGGCATAGACTGCTAGAGCC
CCCAGGATCTGGGGTGGTCAGGGCTCAGGCTTCACTTTGTAAACAGGTGGGGGCATCTCACAGCCTGACTTCC
CTTCCCAGGCCAGGGTGTGCTGGGATGCCTGCCCCCTCTGAGAGGACCCCTCCCCATTGTCAGGCTCTCCATGT
CCACGAGCGGGAGGGTGGGTTCTGGGGCATTGTTGTCCCTTGTGTCTGTGGACTAGAGATAGGGTGGGGGAGC
TGGGGAAGGGTGCAGGCGGGAAGAGTGGGCTGTCTTTCCAGGGTGTGCAAGCATGCCGAGCCCTGGAGGCTG
GGAATGTGAGGCTCTGTGAGCCCTGCAGCCCTCAGAATCAGGGCCAGGGATGCAGAAGATTGAGAGGATATGGA
GATGGATAGAGGGCAGGAGACCCTTAGGATAGATTGTGGGACCCAGGCAGGAACAGGTGTCCACAAGAACTCAGG
ATGGCATCAGTTAGCTCAGAAGCCACCTGGAAGACCCAGTGTTCATCTCTGGAATCTCTGTTTATGCTAAAT
GGATTTAGGAAGACTGTTTTTCTTTTAAAGGGGAAACAAGGTAGAGAAAAGGACGAAGAAGTGTAAAGTCCCGCTG

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FIGURE 1315B

ATTCTCGGGGGTAAGGCTCGGATGGCAAGGACGCGTTCTGCCTGGGCATGTAGGGGAGGTGTTTTTGCCATCACC
AGTTTCTCAGGCTGGGGAGCACAGAGGGGAGGAGGAGGACTAAATGAAAAGTTGTTCCCAGCCTGCACATGAACA
CATTCATGACACACAAAACCTGGCTGGAAGGAGATAAGAGCACTGGGTTTGAGATTCCCTCCATTAACAACCAA
GACAAAGAAAGGAGGGGAAAAAAGATAAAAAGCAAGCCAGGGTTCCTGCCCTATTGAAACTCAAACCCAGACT
GCCTTGGGTTTTATCTTTCCCTTACCCCTGGCACCTCCAGAGAACTGGGACCTGAAATAGTCCCTCCGTTCTCCC
CTTTGACCATGTAATAAATGAACCAGAAGCACTGAGATTAACCTATCAACGCCCTGAGAAGCCTTCCAGCCTGCG
GTGCTGTCTGCTGGGAGGTCAGCTGGTCAAGGCAGAGGAGGAGAGGAGGAAAGGATGGGGGCTGAAGAGCAGAAG
GGAGGGGAGACAGAGGGGATTAAAGAGGGGAGGAGAGAGTGCAGAGCTCCAGGAAAGGGTATCAGAGCTGCAGCC
AGCTCTGCCCTCTACCCTAGGGAGGCCAGAAAGACACAAACAGCCCTCCGGGCCTTTACGCTGGACTCTGGCTTG
GCAGGCTCCAGGCAGGGTCCTCTGGGAAGTTACTCTAGAAAACGAAGGGAGGAGGAGCACAAAGATCCTCAGCAAC
GAACACCTGCACCTTAGAAAAAGTGGACAGCTTCTGCCAACACACCCTACCCATGGTACTGTATGCTATTAACCTC
CTGGAAACGCCCCGTAAATGCGAGTTGTTTTTGTATTTGTGTGTTGAGATGGGCCTTGTGGTTTTCTCTGTACTCA
GAGCACATTTCTTGTAATTACTATTGTTATTTTTATTGTGTCATGACTGCCCCCTGAGCTCTGGTGAGAAAAGCTGAA
TTTACAAGGAAAGGGATGAAGTTAATATTTGCATCACATAATTATATCATTACTGTGTATCTGTGTATTGTACTA
AATGGACTGATGCTGCGCACATGAGCTGAAAATGAAGAGCCCTCCCATCC

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FIGURE 1316

MAPSAWAICWLLGGLLLHGGSSGSPSPGPSVPRRLRLSYRDLLSANRSAIFLGPGQSLNLQAMYLDEYRDLFLGGL
DALYSLRLDQAWPDPREVLWPPQPGQREECVRKGRDPLTECANFVRVLQPHNRTHLLACGTGAFQPTCALITVGH
RGEHVLHLEPGSVESGRGRCPHEPSRPFASFIDGELYTGTLADFLGREAMIFRSGGPRPALRSDSDQSLLDPR
FVMAARIPENSQDNDKVYFFFSETVPSPDGGSNHVTVSRVGRVCVNDAGGQRVLVNKWSTFLKARLVCSVPGPG
GAETHFDQLEDVFLWPKAGKSLEVYALFSTVSAVFQGFVAVCYHMADIWEVFNGPFAHRDGPQHGWGPYGGKVP
FPRPGVCP SKMTAQPGRPFGSTKDYPDEVLQFARAHPLMFWPVRPRHGRPVLVKTHLAQQLHQIVVDRVEAEDGT
YDVIFLGTDSGSVLKVIALQAGGSAEPEEVVLEELQVFKVPTPITEMEISVKRQMLYVGSRLGVAQLRLHQCETY
GTACAECCCLARDPYCAWDGASC THYRPSLGKRRFRQDIRHGNPALQCLGQSQEEEAVGLVAATMVYGTENSTF
LECLPKSPQAAVRWLLQRP GDEGPDQVKTDERVLHTERGLLFRRLSRFDAGTYTCTTLEHGFSQTVVRLALVVIV
ASQLDNLFPPPEPKPEEPPARGGLASTPPKAWYKDILQLIGFANLPRVDEYCERVWCRGTTECSGCFRSTRSRGKQA
RGKSWAGLELGKKMKSRVHAEHNRTPREVEAT

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FIGURE 1317

AAAATTTGAAGACAAGATGGGCACCTACTCTACAATTCTGATAAAAAACAGAGGTCATCGAATGTGGGAACTACTG
TGGAGTACGCATCATTCACTCTTTGATTGCAGAGTTCTCACTGGAAGAATTGAAGAAAAGCTATCACCTGAATAA
AAGTCAAATTATGTTGGATATGCTAACTGAGAATTTGTTCTTCGATACTGGTATGGGAAAAAGTAAATTTTTGCA
AGATATGCACACACTCCTACTCACAAGACACCGCGATGAACATGAAGGTGAAACAGGAAATTGGTTTTCCCCATT
TATTGAAGCATTACATAAAGATGAAGGAAATGAAGCAGTTGAAGCTGTATTGCTTGAAAAGTATCCATCGGTTCAA
CCCAATGCATTCATTGCCAAGCGTTGGCAAGACATTTCTACATTAAAAAGAAGGACTTTGGCAATGCTCTAAA
CTGGGCAAAAACAAGCAAAAATCATAGAACCTGACAATTTCTATATCTCAGATACACTGGGTCAAGTCTACAAAAG
TAAAAATAAGATGGTGGATAGAGGAAAACGGAGGAAACGGGAACATTTTCAGTTGATGATCTAATTGCTCTTTTGG
TTTAGCAGAACATGCCTCAAGTGCATTCAAAGAATCTCAACAGCAAAGTGAAGATAGAGAGTATGAAGTGAAGGA
AAGATTGTATCCGAAGTCAAAAAGGCGGTATGATACTTACAATATAGCTGGTTATCAAGGAGAGATAGAAGTTGG
GCTTTACACAATCCAAATTCTCCAGCTCATTCCTTTTTTTGATAATAAAAATGAGCTATCTAAAAGATATATGGT
CAATTTTGTATCAGGAAGTAGTGATATTCCAGGGGATCCAAACAATGAATATAAAATTAGCCCTCAAAAACCTATAT
TCCTTATTTAACTAAATTGAAATTTTCTTTGAAAAAGTCCTTTGATTTTTTGTATGAATACTTTGTCTGCTAAA
ACCCAGGAACAATATTAAGCAAAATGAAGAGGCCAAAACCTCGGAGAAAGGTGGCTGGATATTTAAGAAATATGT
AGATATATTTTGTCTCTTAGAAGAATCACAAAACAACACAGGTCCTGGATCAAAGTTCAGTGAGCCACTTCAAGT
AGAGAGATGCAGGAGAAACCTAGTAGCTTTAAAAGCAGACAAGTTTTCTGGGCTCTTGGAATATCTTATCAAAG
TCAAGAGGATGCTATAAGCACTATGAAATGTATAGTGAACGAATATACTTTCTCTTAGAACAATGCAGTGTCAA
AATCCAGTCAAAAGAAAAGCTAAATTTCTCTTTGGCCAACATTATTCTCTCCTGTATCCAACCTACCTCCAGATT
AGTAAAGCCAGTTGAAAACTAAAAGATCAGCTTCGAGAAGTCTTGCAACCAATAGGACTGACTTATCAGTTTTTC
AGAACCGTATTTTCTAGCTTCCCTCTTATTCTGGCCAGAAAATCAACAACCTAGATCAACATTCTGAACAAATGAA
AGAGTATGCTCAAGCACTAAAAAATTTCTTCAAGGGGCAATATAAACATATGCATCGTACAAAGCAACCAATTGC
ATATTTCTTTCTTGAAAAAGGTAAAAGACTGGAAAGACTTGTTTCAAAAGGAAAAAATTGACCAGTGCTTTAAGAA
GACACCAGATATTAATTCCTTGTTGGCAGAGTGGAGATGTGTGGAAGGAGGAAAAAGTCCAAGAACTTTTGCTTCG
TTTACAAGGTCGAGCTGAAAACAATTGTTTATATATAGAATATGGAATCAATGAAAAAATCACAATACCCATCAC
TCCCGCTTTTTTAGGTCAACTTAGAAGTGGCAGAAGCATAGAGAAGGTGTCTTTTTACCTGGGATTTCCCATTTGG
AGGCCCCTTGCTTATGACATTGAAATTGTTTAAAGAGCCTGATATTCTTCTCCAAGAATTTGATCTCAGTACCC
ATTTAATTTTTTTGGACTCAAGATCTATGCTTTAAACCGGCAAGGTTATAGATACAGCCTCTAGCTCTTCAGATC
TGTACATGCAGTATTTAATTTCTCTTAAACATGTTATGAGTTCTACAAGGACAATAGTGAAAAAGGAAGGAGTG
AGATATATGAAAAGTAGCAAATATGTTCTTGGTTTGGTTAACATCATTGATGACAAAAATAATAAGGAGCTATGA
CTGGAGTCAGGAGAAGTTAGTGTAATAAGCTGGCTACACAGAACCCCACTACTTACCAGGCATGGATTGAAGAAG
ATTGTCTACTCAAATGGCATTTAGACATTAGAATGTCTGGGAAAAATATTTCTCAAAGACAGCAAAAACCTCTCAA
ACTGAGGAGCAACATTTATTCTTACTAAGCAGATCATCAATGTATCATGTGCTTGGCACTCAAGGATCTTCCAAA
ACAGAGGACCAACCAGTCTTCTGAAGGTATGCCCACAGAAGTCATCGGACCTTACCAAAGTAGGTTGGAGAATT
AGATTGCCTTTTTATGCAGTGAGATTGAGTTAAGCAAAAATGAAATTTGTCTCTATAGCTAATTAGCTTATCAAC
TCCCTTCCAAACAAACAATTAACAAAAAACATACAGACACTCAAATTCACAAGCTAATGAACAAAAGGGACTC
TTGTGAGAAGACTAATGAGTCCCTCATCCAGAAGATGCCAATGTACTGGCAGATTAACATACAACCTATGTTTTG
AACAAAAACAACCAGCGATACGTAATCAAATGTAATTTTCCCTAATAAAATTTATGGATATGGGCAGTCATCAA
TGGCTGCCAAAACCATTAAGTGGAAAGCTGATTAAAAAACAAAAATTTCTAATGGATTTATCAAACGTGCCAAA
TCCGTGATAAATATTAACATCACAGAGGAAGACCAGACATTATGGGCCTGGAAGTACTATAGGAGTGCACACATCA
CCCGTGACATGGTCTTGCCAAATAATTAAACCTGAATTTGATCAGGTCTCTGGATCTTATTTGCAATTCAAAGA
AATTTTAAAAAATCCTACTAACACCACCACAAATATGCAATCAGCAATATCCAGAAAGGGGAAATTCACAGGAC
AAAAACCTGGTTTTCTTTTTTGGTTTTCTTCAACCAAAAAAGAAAGAAATTGCAAAGGACCAAAAAAATGTTGGGG
AATCTATACATTATAAGGGACTTAACAATAAAGGGCAACATATAGACTTTAGATCCTAATTTGAGCAAAATCTA
AAATCAATTATTAGGCAATCAGAAAAATTTGAACACAGACTAGATATTTGAGGATATTAAGGTACTATATTATTG
AAGATTCCATGGTTATGTTTTTTAAAGAGTTCATGCCTTTTAGAGATACATACTAAAGTATTTGTAAATAAATGA
CATGATCTAGAAAAA

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FIGURE 1318

MGTYSTILIKTEVIECGNYCGVRIIHSLIAEFSLEELKKS SYHLNKSQIMLDMLTENLFFDTGMGKSKFLQDMHTL
LLTRHRDEHEGETGNWFS PFIEALHKDEGNEAVEAVLLESIHRFPNNAFICQALARHFYIKKKDFGNALNWAKQA
KIIEPDNSYISDTLGQVYKSKIRWWIEENGNGNISVDDLIALLDLAEHASSAFKESQQQSEDREYEVKERLYPK
SKRRYDTYNIAGYQGEIEVGLYTIQILQLIPFFDNKNELSKRYMVNFVSGSSDIPGDPNNEYKLALKNYIPYLT
LKFSLKKSFDFFDEYFVLLKPRNNIKQNEEAKTRRKVAGYFKKYVDIFCLLEESQNNNTGLGSKFSEPLQVERCRR
NLVALKADKFSGLLEYLIKSDAISTMKCIVNEYTFLEQCTVKIQSKEKLNFI LANIILSCIQPT SRLVKPVE
KLKDQLREVLQPIGLTYQFSEPYFLASLLFWPENQQLDQHSEQMKEYAQALKNSFKGQYKMHMRTKQPIAYFFLG
KGKRLERLVHKGKIDQCFFKKTDPINSLWQSGDVWKEEKVQELLLRLQGRAENNC LYIEYGINEKITIPITPAFLG
QLRSGRSIEKVSFYLGFP IGGPLAYDIEIV

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FIGURE 1319

TAATCTTGAAGAACGGCACAGTGGTATGGGCCACAAGCATACTTTATGTGTGTAACGGACTGAAAGACAAATCAA
TCTTGGTGAAAGGATTTTTTCATCTCTTATTTCTATTTGCCAGTGTTAGTCAGTGTTCTGCTGGCTTAGATTATTA
CCTTTTTCTGGTTCCTTACTGTGTTTTATTCTGATGGTCTAGAAATCCCTCTCCTGACCACTTGTGAGAATCA
GAAAGTGAGGAAGAAGAAAATATTAGTTACCTAAATGAGAGTTCTGGGGAAGAGTGGGATTCTCTGAAGAAGAG
GACTCTATGGTGCCCAACTTATCGCCTCTTGAGAGTCTTGCTGGCAGGTAAAGTGCCTTTTAAATATTCCACA
ACTTGGAACCTTTAAATCCTAATTCCTGGTTGTATCATGCTAAACTGTTGGATCCAAGCACACCAGTCCATATA
CTTCGAGAGATAGGTCTAAGACTCTCCATTGTTCCCATTGTGTCCCCAACTGGAACCAATTCTGAATGGCCC
CCTCTGGCCTCTTGTGGAGTCCCACCTTTTCAAAGCCTCTTACAAGTCCCAGCCGGCTCTCTAGAGATCATGCC
ACTCTAAATGGAGCACTGCAATTTGCCACCAAACAGCTAAGCCGAACATTGAGTAGAGCCACTCCCATACCTGAA
TACCTAAAAACAGATCCCTAATTCATGTGTTTTCTGGGTGTTGCTGTGGCTGGCTGACTAAAACAGTTAAGGAAACA
ACTCGTACTGAACCCATCAACACTACTTATTCTTACACTGACTTCCAAAAGGCAGTTAACAACTCCTAACTGCA
TCACTGTAAAGATCTACCATTGCTCTGATATCTCTGATGTTGCTAATTGAGAAAAGTGGTACAAAGTTAGTCATT
ACACAGCCCACTAATGCCTTCTCAGTCAAACCTCTCTTATGCCCTGGCAAGCCAATGAGGATACCCTTTGACAAAC
CCTGTGGATAAAATGATAATATCAAGGTCAGGCATGGTGGCTCACACCTGTAATCCCAGCACTTTGGGAGGCTGA
GGCGGGTGGATCTGCTGAAGTCAGAAGTTTGAGACCAGCCTTGCCAACACAGTGAAACCCTGTCTCTACTAAAAA
TAAAAAAATTAGCCGGGCGCAGCAGTGCACGCCTGTAATCCCTGCTACTCGGGAGGCTGAAACAGGAGAATCACT
TGAACCCAGGAGACGGAGGTTGCGGTGAGTTGAGATTATGCCACTGTACTCCAGCCTGGGTGACAGAGCGAGACT
CAGTCTCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1320

MGPRNPSPDHLSESESEEEEEENISYLNESSGEEWDSSEEDSMVPNLSPLESLAWQVKCLLKYSTTWKPLNPNSWL
YHAKLLDPSTPVHILREIGLRRLSHCSHCVPKLEPIPEWPPLASCGVPPFQKPLTSPSRLSRDHATLNGALQFATK
QLSRTL SRATPIPEY LKQIPNSCVSGCCCGWLT KTVKETTRTEPINTTYSYTD FQKAVNKLLTASL

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FIGURE 1321

AGCACAGTCCCGCGGACGGCTGAGCGTGTGGCTGCAGGAGCTTCTGTGGGAGTACGGTCATGAGCCTTTTGCTGT
ACTATGCCCTCCCTGCCCTGGGCAGCTATGCCATGCTCTCCATCTTCTTCTGCGCCGGCCTCATCTGCTGCACA
CGCCAGGGCTCCACCTTCCGCATCCGCCTGGGGGCCACCGAGGAGGATCTGGAGAGCTGCTGGAGAACACCA
TGGAGGCCATGGAGAAAGTGAGTGTATCTGCCCTGCCAGGCTGCCATGTGAGGGTGTGCAGGTCGTGGACTGCA
TCACAGCAAGGGACGCCATTCACTTCCCTAGCTGGGTGACTGGCGCCCCCTGGAGGTGGCCTGCACATCCCGCCAC
GAACTCCGCTCTCACATTCCCGGCCACCTCCAGCCACCATGCCCCCTCATCCCAGTCCCCTGCCCTGCCCCCG
CTGACCTTCACCCCCACAGCTCCATGGCCCCAGCGCTCGGACCTCCTGGAGCTCGACTGTCAGCTGACACGGGACA
GAGTGGTGGTGGTGTACATGATGAGAACCTGTGCCGCCAGTCGGGCCTAAACAGGGATGTGGGCAGCCTGGACT
TCGAGGACCTGCCCCCTCTACAAGGAGAAGCTGGAGGTTTACTTCTCTCCAGGCCACTTTGCTCACGGGTCAGACC
GGCGCATGGTTCGTCTGGAGGACCTGTTCCAGAGGTTTCCAAGGACACCCATGAGCGTAGAGATCAAAGGGAAGA
ACGAAGAGCTCATCCGTGAGATAGCAGGCTTGGTGAGACGCTATGACCGTAATGAAATCACCATCTGGGCCTCGG
AGAAGAGCTCGGTGATGAAGAAATGCAAGGCTGCCAACCCCGAGATGCCCCCTGTCCTTCACAATAAGCCGAGGAT
TCTGGGTGCTGCTTTCCTACTACCTGGGGCTGCTGCCCTTCATCCCAATCCCTGAGAAGTTCTTCTTCTGCTTCC
TGCCCAACATCATCAACAGGACCTATTTCCATTTTCTGCTCTTGCCCTGAACCAGTTATTGGCTGTGGTTTCGA
AATGGCTGATCATGAGGAAGAGTCTGATCCGACACTTGGAGGAGCGAGGGGTGCAGGTGGTCTTTTGGTGCCTTA
ATGAAGAGTCGGATTTTGAAGCAGCCTTCAGCGTGGGAGCCACTGGCGTCATAACGGATTATCCACAGCCCTGC
GGCACTACCTGGACAACCATGGACCAGCTGCCCGGACCTCCTTAAGTCCAGAAAGCCTCGAGGTCTTCTGTTTCTCT
TCCTGAAAAATAAATATTTGCCTTTCGATCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1322

MAQRSDLLELDCQLTRDRVVVVSHDENLCRQSGLNRDVGSIDFEDLPYKEKLEVYFSPGHFAHGSDRRMVRLED
LFQRFPRTPMSVEIKGKNEELIREIAGLVRRYDRNEITIWASEKSSVMKKCKAANPEMPLSFTISRGEVWLLSY
LGLLPFIPIPEKFFFCFLPNIINRTYFPFSCSCLNQLLAVVSKWLMRKSLIRHLEERGQVVFVWCLNEESDFEA
AFSVGATGVITDYPTALRHYLDNHGPAARTS

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FIGURE 1323A

TCAGCGGCAGCAGCCGCCGCCGAGATGTCCTCCGGCGAAAGCAAAGCAAACCCCGGCAGATCAAACGGCCGCTTGAA
GATGCCATTGAAGATGAGGAAGAAGAATGTCCATCAGAGGAAACAGACATCATCTCCAAAGGAGACTTTCCATTG
GAGGAAAGCTTTTCCACAGAATTTGGGCCTGAAAATCTGAGCTGCGAAGAAGTGAATACTTTTGTAAACAAAGGT
GATGATGAAGGAATCCAGGAGACAGCAGAATCAGATGGGGACACACAGTCAGAGAAACCGGGGCAACCTGGAGTT
GAGACAGACGACTGGGATGGACCAGGAGAGCTGGAGGTGTTTCAGAAAGATGGGGAACGAAAAATTCAGAGTCGA
CAGCAACTTCCAGTGGGAACAACCTGGGGGCCGTTTCCTGGGAAGATGGACTTGAATAATAATTCTTTGAAGACA
AAGGCTCAGGTCCCAATGGTGCTGACTGCTGGTCCCAAGTGGTTGCTGGATGTGACTTGGCAAGGAGTGGAAGAC
AACAAAAACAACCTGCATTGTGTACAGCAAAGGGGGTTCAGCTTTGGTGTACAACCTACGAAGGCCATCTCTGAGGGT
GAAGAGCTAATTGCCTTTGTGGTGGATTTTGAAGTCAAGGCTACAAGCTGCCAGTCAGATGACTCTCACAGAAGGG
ATGTACCCTGCACGCCCTGCTGGACTCAATTCAGCTGCTTCCCTCAGCAAGCTGCCATGGCTTCTATTTGCCACA
GCTATTGTCAATAAGGATATATTCCCTTGCAAGTCCCTGTGGCATCTGGTATCGGAGTGAGCGGAATCTGCAGGCC
CATTTGATGTACTACTGCAGTGGGAGGCAAAGAGAAGCTGCTCCGGTGTGAGAGGAAAATGAAGACAGTGCCCAT
CAGATTTCCAGCCTGTGCCCCCTTCCACAGTGCACCAAGAGCTTTTCAAATGCTCGAGCTCTAGAAATGCACCTG
AATTCACACAGTGGAGTGAAAATGGAAGAATTCCTGCCCCCTGGTGTAGTCTAAAATGCACCGTCTGTAGCTAC
ACTGCTGATTCCGTGATCAACTTTACCAACACCTGTTCTCCCATCTCACTCAAGCTGCCTTCCGATGTAATCAC
TGCCATTTCCGGCTTCCAGACTCAGAGGGAGTTATTGCAGCACCAGGAGCTCCATGTCCCTAGCGGCAAACCTTCCC
AGAGAAAGTGACATGGAACACTCTCCAAGTGAAGTGAAGACAGCTTACAGCCAGCCACAGACTTATTGACCAGA
AGCGAAGCTTCCCCAGAGCCAAAAGGCCATGCAGACTAAAGATGCGAGCTCTGACACAGAGCTGGACAAGTGTGAG
AAAAAGACTCAGCTCTTCTCACGAACCAGAGACCAGAGATACAGCCTACAACAAATAAACAAAGCTTTTCTTAC
ACAAAAATAAAGTCTGAGCCCTCTAGCCCAAGACTTGCCCTCATCTCCAGTTCAGCCTAATATTGGGCCCTTCTTTC
CCTGTGGGCCCTTCTCTATCTCAGTTTTCTTCCCCCAAGATATACCATGGTCCCTCAAGCTTCAGAGATCTTA
GCTAAGATGTCTGAACTGGTGCATCGGCGACTGAGGCATGGCAGTAGTAGTACCTTCCCGTCATTTACAGCCCT
TTGATGCCCCAAGGGGGCTACTTGTTTGAGTGTAACATAACATTCAATAATTTGGATAATTATCTAGTGCACAAA
AAGCATTATTGCAGCAGCCGATGGCAGCAGATGGCTAAGTCCCCAGAGTTCCCTAGTGTGTGAGAAAAGATGCCT
GAAGCTTTGAGTCCCAACACTGGCCAAACCTCCATAAACCTTCTCAACCCAGCTGCTCATTCTGCTGATCCTGAG
AATCCACTTCTTCAAACATCTTGCATCAATTCTTCCACTGTCTTAGATTTAATTGGGCCAAATGGGAAGGGCCAT
GACAAGGACTTTTCCACTCAAACCTAAGAAGCTCTCCACCTCCAGTAACAATGATGACAAAATTAATGGAAAACCT
GTTGATGTGAAAAATCCCAGTGTCCCTTAGTGGATGGGGAAAGTGACCCAAATAAGACTACCTGTGAAGCTTGC
AACATTACCTTCAGCCGGCACGAAACATACATGGTCCACAAACAGTATTACTGTGCTACACGCCACGACCCCTCCA
CTGAAGAGGTCTGCTTCCAACAAAGTGCCTGCCATGCAGAGAACCATGCGCACACGCAAGCGCAGAAAGATGTAT
GAGATGTGCCTACCTGAGCAGGAACAAAGGCCTCCACTGGTTTCAGCAGAGATTTCTTGACGTAGCCAACCTCAAT
AATCCTTGTACCTCCACTCAAGAACCCACAGAAGGGCTAGGAGAGTGCTACCACCCAAGATGTGATATCTTTCCA
GGAATTGTCTCTAAACACTTGGAAACTTCTCTGACGATCAACAAGTGTGTTCCAGTTTCCAAATGTGATACTACT
CATTCCAGTGTTCCTGCTAGAGATGGACGTGCCATAGATCTCAGCAAAAAGTGTATCTCAGTCTGAGCGG
ACGACCACGTCTCCCAAAAGGCTGCTGGACTATCACGAGTGCAGTGTGTGCAAGATCAGTTTCAATAAGGTAGAA
AACTATCTGGCCCCACAAGCAGAATTTCTGCCCCGTTACTGCACATCAGCGTAATGACCTGGGTCAACTGGACGGC
AAAGTGTTCGGAATCCAGAAAGCGAACGAAACAGCCCTGATGTGAGCTACGAAAGAAGCATAATAAAATGTGAG
AAAAATGGGAATTTGAAGCAGCCTTCCCCCAATGGAACTTATTTTCATCCACCTAGCAACCCCGCAAGGCTTG
AAGGTCTTTAGTGAAGCTGCTCAGCTCATTGCTACAAAAGAAGAAAACAGACATTTGTTTCTTCCACAATGCCTT
TACCCTGGAGCAATAAAGAAAGCAAAGGAGCCGACCAGCTTTCTCCATATTATGGAATCAAGCCAAGTGATTAT
ATTTCTGGTCTCTTGTCTATCCATAACACTGACATCGAGCAAAGCAGAAATGCAGAAAATGAATCTCCTAAAGGC
CAGGCTTCCCTCAAATGGGTGTGCTGCGCTGAAGAAAGATTCTCTGCCATTGTTGCCCAAAAATCGAGGAATGGTA
ATAGTGAATGGTGGACTGAAACAAGATGAGAGACCTGCTGCCAACCCACAGCAAGAGAACATTTCCAGAATCCT
CAGCACGAAGACGACCACAAATCTCCCTCGTGGATCTCTGAGAACCATTAGCTGCCAATGAGAATGTCTACCA
GGAATTCCTCAGCAGAGGAACAGTTGTCTAGTATAGCAAAAGGTGTGAATGGTTCCAGCCAGGCTCCAACCAGT
GGGAAATATTGCCGGCTATGTGATATCCAGTTCAACAACCTTTCAAACCTTTATAACTCACAAGAAGTTTATTGC
TCATCACATGCAGCAGAACATGTCAAATGAACTAACTAAACATCAGTCACCTTTGGTATCAGTGTGTTAGTATGTT
GTTCTAACAGTCCAGAAAAAAAATAAGCTGTTTGAATTACATCTGGGCAATCAGGAGATAATTCATTATGGCT

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FIGURE 1323B

GAGTTGAAGACTTAAGGTGTAATTCATTACAGTCCATTAGTAAAGTGTATTATTGGTGCCATTTTCAAAAAAAT
TAATTTATTTTACCAGCAGTATTCATAGCTGTGGTTATGTTATTTTTTATTTAAAAACTTTATATTAAAGTCATT
TGTAATGTTATTGTATAGTTATTGTGTAGCACATATGGTTTGCAGTGTATAGTAGCTTTTAAAGAAAAATAGTCAC
AATACAGAAAAGCATTTTAGAAATAGCTTCAAAGCACTTGTGTATCTTGATTTTTTCTTATATGCTGTTGCAGA
TATATGTATATGCTAAAATATAACTTGCAAAGATGTTCTAAATACACATGCTATAAGTTCGCCTTAAGATTTCAA
TTCTTGGATAATCAGGCTCTGTTTGCACTTTATATTTTAGCAGATACAGTCTCTTAGTCACTAGGCTTTGCATTT
GTATGTAGCTGTATGTTTCCGTCCATTTTCTTAATCCTGAACCTGTATGTTAAATGAAGATGGCAATTTTTTTCT
TGTATAGTACTTGTATTTTCTTTCGCTGATGCAGCTCTGCTCAATTTTTTAAACCTTTGCTGTTAAATGCAATAC
TTTATAAAGAATGAACAAAATTACTGGAAGCAGTATTGTAAGTAATGAGGTAGTATTAATCAGTTTTATCTTTTG
AAAGGCACAGTCTAAATCGAAACCCTAAACTCAATGCTGCAAGTATGAATTTAATTCATATATAAGATCTATTTA
AATATAAGAGTAGCAATACTGCACCTGGTGATCACAAAGATAATGTTCTACTTCTGATAGAAATAATTTCTCAAC
AAATGTTGTTACTATGCATGTATATGGATGGAATAAAATTCCAGATTGTTGGAGAAAAAAAAAAAAAAAAAAAAA
AAAAAA

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FIGURE 1324

MSRRKQSKPRQIKRPLEDAIEDEEEECPSSEETDIISKGDFFLEESFSTFGPENLSCEEVEYFCNKGDDDEGIQET
AESDGDQTQSEKPGQFQVETDDWDGPGELEVFQKDGERRKIQSRQQLPVGTTWGPFPKMDLNNNSLKTKAQVPMVL
TAGPKWLLDVTWQGVEDNKNNCIVYSKGGQLWCTTTKAISEGEELIAFVVDFDSRLQAASQMTLTEGMYPARLLD
SIQLLPQQAAMASILPTAIVNKDIFPCKSCGIWYRSENLQAHLMYCSEGRQREAAVSEENEDSAHQISSLCPF
PQCTKSFSNARALEMHLNSHSGVKMEEFLLPPGASLKCTVCSYTADSVINFHQHLFSHLTQAAFRCNHCHFGFQTQ
RELLQHQLHVP SGKLPRES DMEHSPSATEDSLQPATDLLTRSELPQSQKAMQTKDASSDTELDKCEKKTQLFLT
NQRPEIQPTTNKQSF SYTKIKSEPSSPRLASSPVQPNIGPSFPVGPFLSQFSFPQDITMVPQASEILAKMSELVH
RRLRHGSSSYPPVIYSPLMPKGATCFECNITFNNLDNYLVHKKHYCSSRWQMAKSPEFFPSVSEKMPEALSPNTG
QTSINLLNPAAHSAADPENPLLQTSCINSSTVLDLIGPNGKGHDKDFSTQTKKLSTSSNDDKINGKPV DVKNPSV
PLVDGESDPNKTTCACNITFSRHETYMVHKQYYCATRHDPPLKRSASNKVPAMQRTMRTRKRRKMYEMCLPEQE
QRPPLVQQRFLDVANLNNPCTSTQEPTEGLGECYHPRCDIFPGIVSKHLETSLTINKCVPVSKCDTTHSSVSCLE
MDVPIDLSKKCLSQSERTTTSPKRLLDYHECTVCKISFNKVENYLAHKQNFQVTAHQ RNDLGQLDGKVFNPES
ERNSPDVSYERSIIKCEKNGNLKQSPNGNLFSSHLATPQGLKVFSEAAQLIATKEENRHLFLPQCLYPGAIKKA
KGADQLSPYYGIKPSDYISGSLVIHNTDIEQSRNAENESPKGQASSNGCAALKKDSLPLLPKNRGMVIVNGGLKQ
DERPAANPQQENISQNPQHEDDHKSPSWISENPLAANENVSPGIPSAEEQLSSIAKGVNGSSQAPTSGKYCRLCD
IQFNNLSNFI THKKFYCSSHAAEHVK

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FIGURE 1325A

TAGGAACAGGGGAGAGTGCACCTGCTACCAGTCAAGCTCAGCCAGACTGCAAGAGGAGGCGAGGCGGAGCCAGCC
GAGGGAGTGAACCATGGACAAGTTGAAATGCCCGAGTTTCTTCAAGTGCAGGGAGAAGGAGAAAGTGTCTGGCTTC
ATCAGAGAATTTCCATGTTGGTGAAAATGATGAGAATCAGGACCGTGGTAACTGGTCCAAAAAATCGGATTATCT
TCTATCTATGATTGGATACGCAGTGGGATTAGGAAATGTGTGGAGATTTCCATACTGACCTACAGCAATGGTGG
AGGCGCCTTCTTGATACCTTATGCAATTATGTTAGCATTGGCTGGTTTACCTTTGTTCTTTCTGGAGTGTTCCT
GGGACAATTTGCTAGCTTAGGTCCAGTTTCAGTTTGGAGGATTCTTCCATTGTTTCAAGGTGTGGGAATTACAAT
GGTCCTGATCTCCATTTTTTGAGACAATCTATTACAATGTCATAATTGCCTATAGTCTTTACTACATGTTTGCTTC
TTTTCAAAGTGAACCTACCATGGAAAAATGTTCTTCGTGGTCTAGATAAAAACTGTAGCAGATCACCAATAGTAAC
TCACTGTAATGTGAGTACAGTGAATAAAGGAATACAAGAGATCATCCAAATGAATAAAAGCTGGGTAGACATCAA
CAATTTTACCTGCATCAACGGCAGTGAAATTTATCAGCCAGGGCAGCTTCCAGTGAACAATATTGGAATAAAGT
GGCGCTCCAACGGTCAAGTGAATGAATGAGACTGGAGTAATTGTTTGGTATTTAGCACTTTGTCTTCTCTGGC
TTGGCTCATAGTTGGAGCAGCACTATTTAAAGGAATCAAATCGTCTGGCAAGGTGGTATATTTTACAGCTCTTTT
CCCCATGTGGTCTACTCATCTGTAGTACGAGGTGCAACTCTGGAGGGTGCTTCAAAAGGCATTTACATACTA
TATTGGAGCCCAGTCAAATTTTACAAAACCTTAAGGAAGCTGAGGTATGGAAGATGCTGCCACTCAGATATTTTA
CTCCCTTTCAGTGGCTTGGGGTGGCTTAGTTGCTCTATCATCTTACAATAAGTTCAAAAACAACCTGCTTCTCTGA
TGCCATTGTGGTTTGTGTTGACAACTGTCTCACTAGCGTGTTTGTCTGGATTGTCTATTTTTTCTATATTGGGACA
CATGGCCCATATATCTGGAAGGAAGTTTCTCAAGTTGTAAAATCAGGTTTTGATTGGCATTCAATGCGCTATCC
AGAGGCTCTAGCCCAACTCCAGGTGGTCCATTTTGGTCCATATTATTTTTTTTTCATGCTTTTAACTTTGGGTCT
CGATTCTCAGTTTGCTTCGATTGAAACGATCACAACAACAATTCAAGATTTATTTCCCAAAGTGATGAAGAAAAT
GAGGGTTCCCATAACTTTGGGCTGCTGCTTGGTTTTGTTTCTCCTTGGTCTCGTCTGTGTGACTCAGGCTGGAAT
TTACTGGGTTCATCTGATTGACCACTTCTGTGCTGGATGGGGCATTTTAATTGCAGCTATACTGGAGCTAGTTGG
AATCATCTGGATTTATGGAGGGAACAGATTCATTGAGGATACAGAAATGATGATTGGAGCAAAGAGGTGGATATT
CTGGCTATGGTGGAGAGCTTGCTGGTTTGTAAATTACGCCTATCCTTTTGATTGCAATATTTATCTGGTCATTGGT
GCAATTTTCATAGACCTAATTATGGCGCAATTCCATACCCTGACTGGGGAGTTGCTTTAGGCTGGTGTATGATTGT
TTTCTGCATTATTTGGATACCAATTATGGCTATCATAAAAATAATTCAGGCTAAAGGAAAACATCTTTCAACGCCCT
TATAAGTTGCTGCAGACCAGCTTCTAACTGGGGTCCATACCTGGAACAACATCGTGGGGAAAAGATATAAAGACAT
GGTAGATCCTAAAAAAGAGGCTGACCATGAAATACCTACTGTTAGTGGCAGCAGAAAAACCGGAATGAGATCTCAT
TGAAAAAATATATGATTGTATAATGTGATTTTTTTTTAGAAATAGGGGGAAACCTTATTTATTTGTGTGTTAACTGA
ATAGGAAAAATGTACATACTATGTTTCATGATAGTGTGATTTTTTTTACATTTAAGCAGGAATGCAATATAAAAAATG
TGAATCTCTTAATTCTCAGCCATGTGCTTATTATATTTCTTTTTAGATTGTCTATCTGTATAACACACACACACA
CACCTAAGAGTCTCTATTTTCACAATTATATTTTTGTAAATAGTATATGCATTTTTTAATACATTGGAGGCTTTATT
TTGAACTAATTTCTTAGAGAATAGTTATATTTTCTATTACACAAGTTTAAAAATATTATTAACCTGTATTTTCTT
AATATACAATCTATCTTTTCCACAAATATGAGTGGGAAATAAATCAGCACATTTGAAAGAAAGTGTAAAACCTGA
AGGCCTCACTTAATTAGAAACGTGATAAATATATGGACAAATGGACTATACATACTATAAGAGGACTGTAGTTTA
ATACTTTTTACCCAAATATGTTTAAAAACATCGTGCATTTGTTACAGCTCATGTTTCTATATGAACCTTAGTCAT
TAATGTTCTTTATAAAAAAGTGAAATAAGATGGAAAAATTAGGATCCTACAGCCAGTACGTGATAAATCTAGAAAA
TTGAGTTTTGAGTACCTCTTTTCCCATATACAATCTTCTTCTTAGGTAATTTGGAAGAAAACCTATGACCCATT
TAATTTCTATTGTGTTTACCAAATTCAGTGTTGTTTATTATACCTCTCTGAAATATAGGTTTAAATTTCAAATAG
AATATGGACTTAAATGTTAATGAGAACTGGCTTTAATCAATTCTAGCATTTTATTACTGTAATACAGGGCTGAT
AGAGTGATTTTGTCTTATATGAGTCAGTTACTACTTACAGGTGATAACTTGCATACTATTGGAAGATAAAGTTGT
CAAACCTTGTCAGAATGAGAAAAGCCAAATTAGAAAATCCTATGTCCTAGTTTCTTACCAAGGATAATTAAATA
TATCACTAAGAGCTTTATATATTGATTATATATTGTTGACAACCTGGTTTAAGCATCATAGCCTATGATGATAAAC
ACTGCCTATATATGTAAATAGCTTTTTCATCAATTCTTAAATTTCTTAACTAGGCTTCAGGGAGCATATGAAACC
AAAATTATATGGAACATTTTCTGTGTGTACATGTACATGCATTTTTCTAGGGAGAGAGTCCGTAGGTTTATCAGA
ATATCAAGGAAAACCTGTGACCCAAAGAAGTTTAAAGAATCACATACAGTGCTGCTGGCTTTTTGTGCTTGGCAAT
GAGTGACAATAGAAGAAATAATTTTTCTTACACATTTTAAACGTTTTCTCTTCTTGTGATTGAAGATGAAAGG
AGTAAGAAATTAAGGCATTTGTTTAAATTTATACTGGTAACTTATTTAGGGGGGAGGGGACATGAAGGTAGGTAA
TAGGTAGGCCTCTAATTGAACCACCTCTCTAAGTTATGTACGTATATATAAGCTGAAATTGTGTTTGACATTCTG

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FIGURE 1325B

AGGGTTTTCTTTTTCTTTTCCTTTTTTTTTTTTTTTGGTGGGGGGCTGGGGGTCAGAGTCTTGTTCTGTTGCCT
GGGCTGGAGTGCAGTGGCATGATCTCAGCTCACTGCAACCTCTGCCTTCTGGATTCAAGTGATTCTCCTGCCTCA
GCCTCTTGAGTAGCTGGGACTACAGGTGCCCCGCCACCACACCAGCTAATTTTTGTATTTTGTAGTAGAGGCGAAGT
TTCCCCATGTTGGCCAGGCTGGTCTTGAACCTCCCGACCTCAAGTGATCTGTCTACCTCGGCCTCCTAAAGTGCTG
AGATTACAGGTGTGAGCCACCGTGCCCGGCCATTCTAAGGGTTTTCTTTGAAGACAGGTCAAATGCTGTTAGTA
AGTTTCAGGAGATTGTTAATTCCTCAGTTATACCAGATTTTATAAAATATTTGAGAATAGATGGCTAACAAGAGG
TTAGAAATACTTTTCCTTAATTTTAATCCACAGTATGTTACATGCATTCTACCACTACATTTTGGTGCTATTTAA
GGTGTGCAATTTTCTATAGGTGACTTTTGCAATTCAGGGAAGATTTGGGCATATTAAATGAAAGAATATCTAATT
GGGGGAGGTGTGAAGGGAAAGAAATTCTTTTCAAAAGCTGACCACAAAGAGTAGTTAAAAGTTTTTGTCACTATC
TTCACAAGTGTGTAAAGCACAGATTTCAACAGAGTGCTTGGCATATTGTAGGGTGCTCAATGGTGGTTTTTTATTA
TTATTACTCAGATTCACAGTGGCAAGAAACATCATTCTACATAATGGAAAACATTTACATCAAATCCCACTTAC
TTTAATGCGAACTTGGAGATAATTTATGGTATTGTATTGTAAACCATTAATGAAAACTTTTTCACAGTTGAGTGA
AATTAATCACTATATCTC

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FIGURE 1326

MDKCLKPSFFKCREKEKVSASSENHVGENDENQDRGNWSKSDYLLSMIGYAVGLGNVWRFPYLTYSNNGGAFI
IPYAIMLALAGLPLFFLECSLGQFASLGPVSVWRILPLFQGVGITMVLISIFVTIYYNVIIAYSLEYMFASFQSE
LPWKNCSWSKNCSPIVTHCNVSTVNKGIQEIIQMNSWVDINNFTCINGSEIYQPGQLPSEQYWNKVALQR
SSGMNETGVIVWYLALCLLLAWLIVGAALFKGIKSSGKVYFTALFPYVLLILLVRGATLEGASKGISYYIGAQ
SNFTKLKEAEVWKDAATQIFYSLSAWGGGLVALSSYNKFKNCFSDAIVCLTNCLTSVFAGFAIFSILGHMAHI
SGKEVSQVVKSGFDLAFIAYPEALAQLPGGPFWSILFFFMLLTGLDLSQFASITTTTTIQDLFPKVMKKMRVPI
TLGCCLVLLGLVCVTQAGIYWVHLIDHFCAGWGILIAAILELVGIIWIYGGNRFIEDTEMMIGAKRWIFWLWW
RACWFVITPILLIAIFIWSLVQFHRPNYGAIPYPDWGVALGWCMIWFCCIWIPIMAIIKIIQAKGNIFQRLISCC
RPASNWGPYLEQHRGERYKDMVDPKKEADHEIPTVSGSRKPE

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FIGURE 1327A

ATGCTCTTTGAGGGCTTGGATCTGGTGTCTGGCGCTGGCCACCCTCGCCGCGTGCCTGGTGTCCGTGACGCTGCTG
CTGGCCGTGTGCGCAGCAGCTGTGGCAGCTGCGCTGGGCGGCCACTCGCGACAAGAGCTGCAAGCTGCCCATCCCC
AAGGGATCCATGGGCTTCCCGCTCATCGGAGAGACCGGCCACTGGCTGCTGCAGGGTTCTGGCTTCCAGTCGTG
CGGAGGGAGAAGTATGGCAACGTGTTCAAGACGCATTTGTTGGGGCGGCCGCTGATACGCGTGACCGGCGCGGAG
AACGTGCGCAAGATCCTCATGGGCGAGCACCACCTCGTGAGCACCAGTGGCCTCGCAGCACC CGCATGTTGCTG
GGCCCCAACACGGTGTCCAATTCCATTGGCGACATCCACGCAACAAGCGCAAGGTCTTCTCCAAGATCTTCAGC
CACGAGGGCCCTGGAGAGTTACCTGCCAAGATCCAGCTGGTGATCCAGGACACACTGCGCGCCTGGAGCAGCCAC
CCCGAGGGCCATCAACGTGTACCAGGAGGCGCAGAAGCTGACCTTCCGCATGGCCATCCGGGTGCTGCTGGGCTTC
AGCATCCCTGAGGAGGACCTTGGGCACCTCTTTGAGGTCTACCAGCAGTTTGTGGACAATGTCTTCTCCCTGCCT
GTCGACCTGCCCTTCAGTGGCTACCGGCGGGGCATTACGGCTCGGCAGATCCTGCAGAAGGGGCTGGAGAAGGCC
ATCCGGGAGAAGCTGCAGTGCACACAGGGCAAGGACTACTTGGACGCCCTGGACCTCCTCATTGAGAGCAGCAAG
GAGCACGGGAAGGAGATGACCATGCAGGAGCTGAAGGACGGGACCCTGGAGCTGATCTTTGCGGCCATATGCCACC
ACGGCCAGCGCCAGCACCTCACTCATATGCAGCTGCTGAAGCACCCTACTGTGCTGGAGAAGCTGCGGGATGAG
CTGCGGGCTCATGGCATCCTGCACAGTGGCGGCTGCCCCCTGCGAGGGCACACTGCGCCTGGACACGCTCAGTGGG
CTGCGCTACCTGGACTGCGTCATCAAGGAGGTATGCGCCTGTTACGCCCCATTTCCGGCGGCTACCGCACTGTG
CTGCAGACCTTCGAGCTTGATGGTTTCCAGATCCCCAAAGGCTGGAGTGTATGTATAGCATCCGGGACACCCAT
GACACAGCGCCCGTGTTCAAAGACGTGAACGTGTTGACCCCCGATCGCTTCAGCCAGGCGCGGAGCGAGGACAAG
GATGGCCGCTTCCATTACCTCCCGTTCCGTGGCGGTGTCCGGACCTGCCTGGGCAAGCACCTGGCCAAGCTGTTT
CTGAAGGTGCTGGCGGTGGAGCTGGCTAGCACAGCCGCTTTGAGCTGGCTACACGGACCTTCCCCCGCATCACC
TTGGTCCCCGTCTGCACCCCGTGGATGGCCTCAGCGTCAAGTTCTTTGGCTGGACTCCAACAGAACGAGATC
CTGCCGGAGACGGAGGCCATGCTGAGCGCCACAGTCTAAACCCAAGACCCACCCGCTCAGCCCAGCCCAGGCAGC
GGGTGGTGGTTGTGGGAGGTAGAAACCTGTGTGTGGGAGGGGGCCGGAACGGGGAGGGCGAGTGGCCCCATAC
TTGCCCTCCCTTGCTCCCCCTCCCTGGCAAACCTACCCAAAGCCAGTGGGCCCCATTCTAGGGCTGGGCTCCC
CTTCTGGCTCCAGCTTCCCTCCAGCCACTCCCCATTTACCATCAGCTCAGCCCCCTGGGAAGGGCGTGGCAGGGGC
TCTGCATGCCCGTGACAGTGTTAGGTGTACGCGGTGCTACAGTGTTTTTGTGATGTTCTGAACTGCTCCCTTCC
CTCCGTTCCCTTCGGACCTTTTAGCTGGGGTGGGGGACGGGAAGAGCCGTGCCCCCTTGGGCGCACTCTTCAG
CGTCTCCTCCTCTGCGCCCCACTGCGTCTGCCCAGGAACAGCATCCTGGGTAGCAGAACAGGAGTCAACCTTG
GCGGGGCGGGGGCTGCGTCAAACCTGGAGATTGCCCTTCCCTATGCCACGGTTCCCACCCTCCCTCACCAGTTTG
GACAATTTGAAATTACCTATTGCTGCTACTTGTCTGTCTCTGACCTTGGGGCAAAGGAGCCCCAGGCCCTGTC
TCCCCAGCATCCTCCCTGGTGGCCCTGGGCAGGTGCACTGACACCCCCACCTTCCCATCCCTGCTGAACCAGGC
CCTGTTACACACAGCCGCTAAGGCCCGCGGCTCATGTGCTGCCCCGCCCATATTTATTCACTGATAGAGAATC
TTGGGGATGCTGGGGTCTGGAGTGAACATCTCTCCCTTCATGCCCTAGCCTGTGTTCTAGCTGTCTCTGGCGAG
ACTTCTGTGAGTGAAGAGGAAGGGGTCTCTGGTCAAACCCAGCCCCCAGGGCCTAGGGTTGAAAGCCTTCCCCGG
CTCCGGGCATTATTTGGGTTTAATCTCGGAGCCTCACTCCTGGACTGAAGTCCGGTGCCTCTGCCTTATCCCTGG
TGGAGATGGAATGTGGCCCATTGCTCCTCCCTCTCTGTCAAAAACCTGATCAGGTAGATTTGGAGGCGGCCA
CGATTTCTGTGTTGGCCCTGTTACCCCCAGTGCCTGGCCCTGACTCCAGGCGTGAGTATGGGGAAGGATACGG
GTTCTTCTGACGGGGAGCAAGGGCCTCCGTCTTCCCTTCCCTTAACTCTCCCCCTTTGCCCTCCGCCCTGAAAAG
GTGTCCTTGAAGTCCCTTCCACCTCTATGCCACTGTCTGCTTAGCCAGCTCAGGGGTGGGGAAGAGGCGAAAGC
GTGGGGGAGGTGAGCGCAGCGGCAGTTCTGCCTCGGAGCTGATTGCAGGGCCCTGTGTGGTCTCCGGACAGCTGC
GGGAAGGCTGCCGCAGCTGAAGCTGAAGAGGCGGTACGTGCGGTTTGTGAGGGGATTGGGTTGAAAACCTGGCC
AGTCGGGATGACTGGGTGAAAGAGGAGTAGTCTTCCACTGGCGTTTTGAGTGTGGCAATTTGGGATGCCTCC
TGGGGAAGGTTTCCGGGCGTTTGGTGAGTCTCTAGATTTTCCCTTGCTTTCTGTGTTTATTGGTTTTTGATGTTG
TAAAGCAATGAATCCCCTTTACAAGAAAATCGAAAACACAGAAGATGAAGGACATGCCAGTCCCCGATCGCTG
CTGTGAGCACCTCAGTGGCTCCCTCAGACCAGATCCCGTAGGCAGCCCCACAGACCGACCCTGACCCCACTCACA
GCCACCCTGAAGATAGACTATAGGAACGGGCCCATACCACACAGACTGCTCTCCAATCCCTGAGTCTCAGATGTT
TCATTTATTTCTACTTTTCCACTACTAAAAACAGTGTGGAATAGACATTATTGGCAAAATTGCTCATCCCTAA
TCCTGAAAACAGGCCAGAATGGGTAAAGACTTGTCAAAGCTTGCAACATAGCTACATGGTGCACCCGGACCTGT
ACCCCTCCCCCAACACAAAACAGTGTCTGGGAGGTTCAATTTCTTTAACTGATCCAGCTGGCCCTGAACC

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FIGURE 1327B

AATTGTTTTTGAAGTATCTAGGAGAGCAGTAAGTGGAACTTCAGACAAGCCCACTGGGTCTGGTCCAGGTGA
GGGGCAGGGGGCATGGGGCTGGGAGGTCTCAGGGGCCCTTCCTGGGGGTGGCCAGCCTGGTAGGGGGCAGAGAAG
GAAAAGCTGAGGGGGGTCCCTGTGAGGGAGGAAAGAAGGATCATTGCCCCGCTGGGTCTCAAAGGCAGTGAGAA
GAGAGCTGAAGAAAGCTCTGGCTGGCTGACAGGATCCCTGTGTTGTAATTGGTCCCTCCTTTTCAGCTCTCTAGTG
AGATGCCCGTGTCTGTGCGTGTGCGTGTGTTTCATACAGCTAGCATTAGATGGGTGATGTTTCTTACTTATCA
TCCCTAACTATTGCAACTTGACCTTAAAAAGACAAAACCCACAAAACCTCTTCCTGCCACGGGCTTGCAGATTGA
AGCACTTTCGATGTTGGGCGCTGGCGTTTGTGTTCTGGGCACCACCGTGACCCTGCCCAGATGGCTATAATATTA
TTTTATACACAAACCTTTTTTTTCATAAATGTTATAATTTTGTGCTGTCTTTATAAACTATTATAAGTACTATT
TTTGTATAAATTCAAATAGATATTTAGTATAAAGTTTTTGCTGTTAAATATTTGTTATTTAGTAAATATGAAT
TTTGCTCTATTGTAAACATGGTTCAAATATTAATATGTTTTTATCACAGTCGTTTTAATATTGAAAAAGCACTT
GTGTGTTTTGTTTTGATATGAACTGGTACCGTGTGAGTGTTTTTGCTGTCGTGGTTTTAATCTGTATATAATAT
TCCAATGTTGCATATTAAAAA

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FIGURE 1328

MLFEGLDLVSALATLAACLVSVTLLLAVSQQLWQLRWAATRDKSCKLP
IPKGSMGFPLIGETGHWLLQGSGFQSS
RREKYGNVFKTHLLGRPLIRVTGAENVRKILMGEHHLVSTEWPRSTRMLLGPNTVSN
SIGDIHRNKRKVF
SKIFS
HEALESYLPKIQLV
IQDTLRAWSSHPEAINVYQEAQKLTFRMAIRVLLGFSIPEEDLGH
LFEVYQQFVDNVFSLP
VDLPFSGYRRGIQARQILQKGLEKAIREKLQCTQGKDYL
DALDLLIESSKEHGKEMTMQELKDGTLELIFAAYAT
TASASTSLIMQLLKHPTVLEKLRDELRAHGILHSGGCPCEGTLRLDTLSGLRYLDCV
IKEVMRLFTPISSGGYRTV
LQTFELDGFQIPKGWSVMYSIRDTHDTAPVFKDVNVFDPDRFSQARSEDKDGRFHYLP
FGGGVRTCLGKHLAKLF
LKVLAVELASTSRFELATRTFPRITLVPVLHPVDGLSVKFFGLDSNQNEILPETEAMLSATV

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FIGURE 1329

CCCCATCCCTATAGGAGCTGGTGAGATTGCAGCCTGCTGCCTCCCCCTCCATCAACCACAGCTATTGGATTTCCTCA
CCCAGAATCTTTAGGTAAATGAGATCATGATTCTGGAAGGAGGTGGTGTAATGAATCTCAACCCCGGCAACAACC
TCCTTCACCAGCCGCCAGCCTGGACAGACAGCTACTCCACGTGCAATGTTTCCAGTGGGTTTTTTGGAGGCCAGT
GGCATGAAATTCATCCTCAGTACTGGACCAAGTACCAGGTGTGGGAGTGGCTCCAGCACCTCCTGGACACCAACC
AGCTGGATGCCAATTGTATCCCTTTCCAAGAGTTTCGACATCAACGGCGAGCACCTTTCAGCATGAGTTTGCAGG
AGTTCACCCGGGCGGCAGGGACGGCGGGGAGCTCCTCTACAGCAACTTGCAGCATCTGAAGTGAACGGCCAGT
GCAGTAGTGACCTGTTCCAGTCCACACACAATGTCAATTGTCAAGACTGAACAACTGAGCCTTCCATCATGAACA
CCTGGAAAGACGAGAATATTTATATGACACCAACTATGGTAGCACAGTAGATTTGTTGGACAGCAAACTTTCT
GCCGGGCTCAGATCTCCATGACAACCACAGTCACCTTCCTGTTGCAGAGTCACCTGATATGAAAAGGAGCAAG
ACCCCTGCGGAGTGCCACACCAAAAAGCACAACCCGAGAGGGACTCACTTATGGGAATTCATCCGCGACATCC
TCTTGAACCCAGACAAGAACCCAGGATTAATAAAATGGGAAGACCGATCTGAGGGCGTCTTCAGGTTCTTGAAAT
CAGAGGCAGTGGCTCAGCTATGGGGTAAAAAGAAGAACAACAGCAGCATGACCTATGAAAAGCTCAGCCGAGCTA
TGAGATATTACTACAAAAGAGAAATCTGGAGCGTGTGGATGGACGAAGACTGGTATATAAATTTGGGAAGAATG
CCCAGGATGGAGAGAAAATGAAAAC**TGA**AGCTGCCAATACTTTGGACACAAACCAAAACACACACCAATAATC
AGAAACAAAGAACTCCTGGACGTAAATATTTCAAAGACTACTTTTCTCTGATATTTATGTACCATGAGGGGAACA
AGAACTACTTCTAACGGGAAGAAGAAACACTACAGTCGATTAAAAAAATTTATTTTGTACTTCGAAGTATGTCC
TATATGGGGAAAAACGTACACAGTTTTCTGTGAAATATGATGCTGTATGTGGTTGTGATTTTTTTTACCTCTA
TTGTGAATCTTTTTTCACTGCAAGAGTAACAGGATTTGTAGCCTTGTGCTTCTTGCTAAGAGAAAGAAAAACAA
ATCAGAGGGCATTAAATGTTTTGTATGTGACATGATTTAGAAAAAGGTGATGCATCCTCCTCACATAAGCATCCA
TATGGCTTCGTCAAGGGAGGTGAACATTGTTGCTGAGTTAAATTCAGGGTCTCAGATGGTTAGGACAAAGTGA
TGGATGCCGGGAAGTTTAACCTGAGCCTTAGGATCCAATGAGTGGAGAATGGGGACTTCCAAAACCCAAGGTTGG
CTATAATCTCTGCATAACCACATGACTTGAATGCTTAAATCAGCAAGAAGAATAATGGTGGGGTCTTTTATACTC
ATTCAGGAATGGTTTTATCTGATGCCAGGGCTGTCTTCCTTTCTCCCCCTTTGGATGGTTGGTGAAATACTTTAATT
GCCCTGTCTGCTCACTTCTAGCTATTTAAGAGAGAACCCAGCTTGGTCTTTTTTTGCTCCAAGTGCTTAAAAATA
AGTTGGAAAAAGGAGACGGTGGTGTGGAATGGCTGAAGAGTTTGCTCTTGTATCCCTATAGTCCAAGGTTTCTC
AATCTGCACAATTGACATTTTTTGGCCGGAGTGTTCTTTGTGGTGAGGGCTTTCCTGTGCATTGTAAGATGTTTCA
CAGTATCCACTCATGGTCTCTAACCCTTGACACCAGAAACCCCCCAGCTGTGATAACGCAAAATGTCTCTAGAC
ATCACCAATGTTCCCTGGGGGTGGCAAATTTGCCCTTGATTGAGAACCACCAGTTTAGCTAGTCAATATGAGGA
TGGTGGTTTTATTCTCAGAAGAAAAAGATATGTAAGTCTTTTAGCTCCTAAGAGTGAAGCAAAAGCAAGACTTCAA
CTTCAACCTATCTTAATGTTTTAAATGTTAGGGACAATAAGTTGAAATAGTTAGAGGAGCTTCTTTTTCAGAACCC
CAGATGAGAGCCAATGTCAGATAAAGTAAGCATAGCAATGTAGCAGGAACACAATAGAAGACATTTTCACTGGA
ATTACAAAGCAGAATTAAAATTATATTGTAGAAGGAAACACCAAGAAAAGAATTTCCAGGGAAAATCCTCTTTGC
AGGTATTAATCTTATAATTTTTTGTCTTTTGGATTATCTGTTTACTGTCTCATCTGAAGTATCCAGGTGAAC
GGTTTATTGCCTAGATTTGTACTCAGAGGAATTTTTTTGTTTTGTTTTGTTCTTCTAAGAAAGGAAAGAAAGGAT
GAAAAAATAAACAGAAAACCTCAGCTCAGGCACAATTGTC

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FIGURE 1330

MILEGGGVMLNPNP GNNLLHQPPAWTDSYSTCNVSSGFFGGQWHEIHPQYWTKYQVWEWLQHLLDTNQLDANCIPF
QEFDINGEHLCSMSLQEFTRAAGTAGQLLYSNLQHLKWNGQCSSDLFQSTHNVIVKTEQTEPSIMNTWKDENLY
DTNYGSTVDLLDSKTFCRAQISMTTTSHPVAESPDMKKEQDPPAECHTKKHNPGRGTHLWEFIRDILLNPDKNPG
LIKWEDRSEGVFRFLKSEAVAQLWGKKKNNSSMTYEKLSRAMRYYYKREILERV DGRRLVYKFGKNARGWRENEN

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FIGURE 1331

GAAATCTGTACGAACTATTTCAGGCTGCTTTTATAGAGGCATGAAAGTTAGACAAAAATTGAAAAATGTATCAGAGGA
AAAGATGGCAGCCATTGTTAACCAATCTGCACTCTGCTGTTACAGAAGCAAACTCAGTATGAAGCTGTTCAAAG
TGAAGGTGTTATGATTCAAGAGTGGTATAAAGCTTCTGGCCTTGCTTGTTACAGGAAGCAGAGTATCATTCTCA
AAGTAGGGCTGCAGTAACAATTCAAAAAGCTTTTGTAGAATGGTCACAAGAAAAGCTGGAACACAGAAATGTGC
TGCCCTACGGATTAGTTCCTTCCTTCAGATGGCTGTGTATCGGAGAAGATTGTTCAGCAGAAAAGAGCTGCTAT
CACTTTACAGCATTATTTTAGGACGTGGCAAACCAGAAAACAGTTTTTACTATATAGAAAAGCAGCAGTGGTTTT
ACAAAATCACTACAGAGCATTCTGTCTGCAAAACATCAAAGACAAGTCTATTTACAGATCAGAAGCAGTGTAT
CATTATTCAAGCTAGAAGTAAAGGATTTATACAGAAACGGAAGTTTCAGGAAATTAATAATAGCACCATAAAAAAT
TCAGGCTATGTGGAGGAGATATAGAGCCAAGAAATATTTATGTAAAGTGAAAGCTGCCTGCAAGATTCAAGCCTG
GTATAGATGTTGGAGAGCACACAAAGAATATCTAGCTGTATTAAGCTGTTAAATTTATTCAAGGTTGCTTCTA
TACCAAACTAGAGAGAACACGGTTTTTGAATGTGAGAGCATCAGCAATTATCATTACAGAGAAAATGGAGAGCTAT
ACTTCTGCAAAAGATAGCTCATGAACACTTCTTAATGATAAAAAGACATCGAGCTGCTTGTTTGATCCAAGCACA
TTATAGAGGATATAAAGGAAGGCAGGCTCTCTCTTCGGCAGAAATCTGCTGCTTTGATCATACAAAAATATATACG
AGCCAGGGAGGCTGGAAAGCATGAAAGGATAAAATATATTGAATTTAAAAAATCTACAGTTATCCTACAAGCACT
GGTGCCTGGTTGGCTAGTACGAAAAAGATTTTGTAGAAGAGAGGCCAAAATTCGACTTCTTCACTTCACTGCAGC
TGCATATTATCACCTGAATGCTGTTAGAATTCAAAGAGCCTATAAACTTTACCTGGCTGTGAAGAATGCTAACAA
GCAGGTTAATTCAGTCATCTGTATTAGAGATGGTTTCGAGCAAGATTACAAGAAAAGAGATTTATTAGAAAATA
TCATAGCATCAAAAAGATTGAGCATGAAGGTCAAGAATGTCTGAGCCAGCGAAATAGGGCTGCATCAGTAATACA
GAAAGCAGTGCGCCATTTCTCCTCCGTAAAAAGCAGGAAAAATTCAGTAGTGAATCATTAAATTCAGGCATT
ATGGAGAGGCTATTCTTGGAGGAAGAAAAATGATTGTACAAAATTAAGCTATACGACTAAGTCTTCAAGTTGT
TAATAGGGAGATTTCGAGAAGAAAAACAACTCTACAAAAGAACTGCACTTGCACTTCATTACCTTTTGACATATAA
GCACCTTTCTGCCATTCTTGAGGCCTTAAACACCTAGAGGTAGTTACTAGATTGTCTCCACTTTGTTGTGAGAA
CATGGCCCAGAGTGGAGCAATTTCTAAAATATTTGTTTTGATCCGAAGTTGTAATCGCAGTATTCCTTGTATGGA
AGTCATCAGATATGCTGTGCAAGTCTTGCTTAATGTATCTAAGTATGAGAAAAGCTTTCAGCAGTTTATGATGT
AGAAAATGTATAGATATACTATTGGAGCTTTTGCAGATATACCGAGAAAAGCCTGGTAATAAAGTTGCAGACAA
AGGCGGAAGCATTTTTACAAAACCTTGTGTTTGTGGCTATTTTACTGAAGACAACAAATAGAGCCTCTGATGT
ACGAAGTAGGTCCAAAGTTGTTGACCGTATTTACAGTCTCTACAACTTACAGCTCATAAACATAAAATGAATAC
TGAAAGAATACTTTACAAGCAAAAGAAGATTCTTCTATAAGCATTCTTTTATCCCAGAAACACCTGTAAGGAC
CAGAATAGTTTCAAGACTTAAGCCAGATTGGGTTTTGAGAAGAGATAACATGGAAGAAATCACAATCCCCTGCA
AGCTATTCAAATGGTGATGGATACGCTTGGCATTCTTATAGTAAATGTAAACATTTTCAGTATGTATAGTGTA
AAGAAATATTAAAGCCAATCATGAGTACGTAAAGTGATTTTTGCTCTCTGTGTACAACTTTTAAATCTGACTTT
GTTTTAAAAAACATAAACTGTTTCATTACATTCTTCAATTTTATCATTATAGTTTTATGCATGTAATAAACTAA
TATGTCATAAGATG

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FIGURE 1332

MKVRQKLKNVSEKMAAIVNQSALCCYRSKTQYEAVQSEGVMIQEWYKASGLACSQEAEYHSQSRAAVTIQKAF
RMVTRKLETQKCAALRIQFFLQMAVYRRRFVQQKRAAITLQHYFRTWQTRKQFLLYRKAADVVLQNHYRAFLSAKH
QRQVYLQIRSSVIIQARSKGFIQKRKFQEIKNSTIKIQAMWRRYRAKKYLCKVKAACKIQAWYRCWRAHKEYLA
VLKAVKIIQGCIFYTKLERTRFLNVRASAIQKRWRAILPAKIAHEHFLMIKRHRAACLIQAHYRGYKGRQVSLR
QKSAALIIQKYIRAREAGKHERIKYIEFKKSTVILQALVRGWLVRKRFLEQRAKIRLLHFTAAAYYHLNAVRIQR
AYKLYLAVKNANKQVNSVICIQRWFRARLQEKRFIQKYHSIKKIEHEGQECLSQRNRAASVIQKAVRHFLLRKKQ
EKFTSGIIKIQALWRGYSWRKKNDCTKIKAIRLSLQVNVNREIREENKLYKRTALALHYLLTYKHLAILEALKHL
EVLTRLSPCCENMAQSGAISKIFVLIRSCNRSIPCMEVIRYAVQVLLNVSKYEKTTSAVYDVENCIDILLELLO
IYREKPGNKVADKGGSIPTKTCLLAILLKTNRASDVRSRSKVVDRIYSLYKLTAKHKMNTERILYKQKKNS
ISIPFIPETPVTRIVSRCLKPDWVLRRDNMEEITNPLQAIQMVMDTLGIPY

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FIGURE 1333

ATGAGGCTCCTCCGCAGACGCCACATGCCCCCTGCGCCTGGCCATGGTGGGCTGCGCCTTTGTGCTCTTCCTCTTC
CTCCTGCATAGGGATGTGAGCAGCAGAGAGGAGGCCACAGAGAAGCCGTGGCTGAAGTCCCTGGTGAGCCGGAAG
GATCACGTCTGGACCTCATGTGAGGAGCCATGAACAACCTTAGAGATTCAATGCCCAAGCTCCAAATCAGGGCT
CCAGAAGCCCAGCAGACTCTGTTCTCCATAAACAGTCTGCTCCCTGGGTTCTATACCCAGCTGAACTGAAG
CCCTTCTGGGAACGGCCACCACAGGACCCCAATGCCCCCTGGGGCAGATGGAAAAGCATTTTCTAGAAGAGCAAGTGG
ACCCCCCTGGAGACCCAGGAAAAGGAAGAAGGCTATAAGAAGCACTGTTTCAATGCCTTTGCCAGCGACCGGATC
TCCCTGCAGAGGTCCCTGGGGCCAGACACCCGACCACCTGAGTGTGTGGACCAGAAGTTCCGGCGCTGCCCCCA
CTGGCCACCACCAGCGTGATCATTGTGTTCCACAACGAAGCCTGGTCCACACTGCTGCGAACAGTGTACAGCGTC
CTACACACCACCCCTGCCATCTTGCTCAAGGAGATCATACTGGTGGATGATGCCAGCACAGAGGAGCACCTAAAG
GAGAAGCTGGAGCAGTACGTGAAGCAGCTGCAGGTGGTGAGGGTGGTGCGGCAGGAGGAGCGGAAGGGGTGATC
ACCGCCCGCTGCTGGGGGCCAGCGTGCCACAGGCGGAGGTGCTCACGTTTCTGGATGCCCACTGTGAGTGCTTC
CACGGCTGGCTGGAGCCCCCTCTGGCTCGAATCGCTGAGGACAAGACAGTGGTGGTGAGCCAGACATCGTCACC
ATCGACCTTAATACTTTTGTAGTTTCGCCAAGCCCGTCCAGAGGGGCAGAGTCCATAGCCGAGGCAACTTTGACTGG
AGCCTGACCTTCGGCTGGGAAACACTTCCTCCACATGAGAAGCAGAGGCGCAAGGATGAAACATACCCCATCAAA
TCCCCGACGTTTGCTGGTGGCTCTTCTCCATCCCCAAGTCTACTTTGAGCACATCGGTACCTATGATAATCAG
ATGGAGATCTGGGGAGGGGAGAACGTGGAAATGTCCTTCCGGGTGTGGCAGTGTGGGGGCCAGCTGGAGATCATC
CCCTGCTCTGTCTAGGCCATGTGTTCCGGACCAAGAGCCCCCACACCTTCCCCAAGGGCACTAGTGTCTATTGCT
CGCAATCAAGTGCGCCTGGCAGAGGTCTGGATGGACAGCTACAAGAAGATTTTCTATAGGAGAAATCTGCAGGCA
GCAAAGATGGCCCAAGAGAAATCCTTCGGTGACATTTTCGGAACGACTGCAGCTGAGGGAACAACCTGCACTGTCAC
AACTTTTCTGCTGGTACCTGCACAATGTCTACCCAGAGATGTTTGTTCCTGACCTGACGCCCACCTTCTATGGTGCC
ATCAAGAACCTCGGCACCAACCAATGCCTGGATGTGGGTGAGAACAACCGCGGGGGGAAGCCCCCTCATCATGTAC
TCCTGCCACGGCCTTGCGCGCAACCAGTACTTTGAGTACACAACCTCAGAGGGACCTTCGCCACAACATCGCAAAG
CAGCTGTGTCTACATGTCAGCAAGGGTGCTCTGGGCCTTGGGAGCTGTCACTTCACTGGCAAGAATAGCCAGGTC
CCCAAGGACGAGGAATGGGAATTGGCCCAGGATCAGCTCATCAGGAACCTCAGGATCTGGTACCTGCCTGACATCC
CAGGACAAAAAGCCAGCCATGGCCCCCTGCAATCCCAAGTACCCCCATCAGTTGTGGCTCTTTGTCT**TAGG**ACCCA
GATCATCCCCAGAGAGAGCCCCCACAAGCTCCTCAGGAAACAGGATTGCTGATGTCTGGGAACCTGATCACCAGC
TTCTCTGGAGGCCGTAAAGATGGATTTCTAAACCCACTGGGTGGCAAGGCAGGACCTTCCTAATCCTTGCAACAA
CATTGGGCCCATTTTCTTTCCCTTCACACCGATGGAAGAGACCATTAGGACATATATTTAGCCTAGCGTTTTCTG
TTCTAGAAATAGAGGCTCCCAAAGTAGGGAAGGCAGCTGGGGGAGGGTTCAGGGCAGCAATGCTGAGTTCAAGAA
AAGTACTTCAGGCTGGGCACAGTGGCTCATGCCTGAAATCCTAGCACTTTGGGAAGACAATGTGGGAGAATGGCT
TGAGCCAGGAGTTCAAGACCGGCCTGAGCAACATAGTGAGGATCCCATCTCTACGCCCACCTCCCCCGGCAA
AAAAAAGCTGGGTATGGTGGCTTATGCCTGTAGTGCAGCTACTCAGAAGGCTGAGGTGGGAGGATTGCTTGT
TCCCCGGAGGTTGAAGCTACAGTGAGCCTTGATTGTGTCACTGCACTCCAGCCTGGGCAACAGGTAAGACTCTGT
CTCAAAAAAAAAACAAAAAGAAGAAGAAAGTACTTCTACAGCCATGTCTATTCTTGATCATCCAAAGCACC
TGAGAGTCCAGTGAAATGATATATTCTGGCTGGGCACAGTGGCTCACACCTGTAATCCTAGCACTTTGGGAGGC
CAAGGCAGGTGGATCACCTGAGGTGAGAAGTTTGAACACAGCCTGGACTACATGGTGAAACTCCATCTCTACTAA
AAGTACAAAAATTAGCTGGGCATGATGGCACGCACCTGCAGTCCCAGCTACTTGGGAGGCTGAGGCAGGAGAATC
ACTCGAACCCAGGAGGCAGAGGTTGCAGTGAGCCAAGACAGCACCATTGCACCCCAGCCTGAGCAACAAGAGCGA
AACTCCATCTCAGGAAAAAAAAAAAAAAAAA

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FIGURE 1334

MRLRRRRHMPRLAMVGCAFVLFLFLHLDVSSREEATEKPWLKSLVSRKDHVLDLMLLEAMNNLRDSMPKLQIRA
PEAQQTLSINQSLPGFYTPAELKPFWERPPQDPNAPGADGKAFQKSKWTPLETQEKEEGYKKHCFNAFASDRI
SLQRSIGPDTRPPECVDQKFRRCPLATTSVIIVFHNEAWSTLLRTVYSVLHTTPAILLKEIILVDDASTEHLK
EKLEQYVKQLQVVRVVRQEERKGLITARLLGASVAQAEVLTFDAHCECFHGWLEPLLARIAEDKTVVVSPDIVT
IDLNTFEFAKPVQRGRVHSRGNFDWSLTFGWETLPPHEKQRRKDETYPIKSPTFAGGLFSIPKSYFEHIGTYDNQ
MEIWGGENVEMSFRVWQCGGQLEIIPCSVVGHVFRKSPHTFPKGTSVIARNQVRLAEVWMDSYKKIFYRRNLQA
AKMAQEKSFGDISERLQLREQLHCHNFSWYLNHVPPEMFVPDLTPTFYGAIKNLGTNQCLDVGENNRGGKPLIMY
SCHGLGGNQYFEYTTQRDLRHNIKQLCLHVSKGALGLGSCHFTGKNSQVPKDEEWELAQDQLIRNSGSGTCLTS
QDKKPAMAPCNPSPHQLWLFV

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FIGURE 1335

ATGATCATCCCCTCTCTAGAGGAGCTGGACTCCCTCAAGTACAGTGACCTGCAGAACTTAGCCAAGAGTCTGGGT
CTCCGGGCCAACCTGAGGGCAACCAAGTTGTTAAAAGCCTTGAAAGGCTACATTAAACATGAGGCAAGAAAAGGA
AATGAGAATCAGGATGAAAGTCAAACCTTCTGCATCCTCTTGTGATGAGACTGAGATACAGATCAGCAACCAGGAA
GAAGCTGAGAGACAGCCACTTGGCCATGTCACCAAAACAAGGAGAAGGTGCAAGACTGTCCGTGTGGACCCTGAC
TCACAGCAGAATCATTTCAGAGATAAAAATAAGTAATCCCCTGAATTCAGAAATCATGAAAAGCAGGAAAGCCAG
GATCTCAGAGCTACTGCAAAAGTTCCTTCTCCACCAGACGAGCACCAAGAAGCTGAGAATGCTGTTTCCTCAGGT
AACAGAGATTCAAAGGTACCTTCAGAAGGAAAGAAATCTCTCTACACAGATGAGTCATCCAAACCTGGAAAAAT
AAAAGAAGTGAATCACTACTCCAAACTTTAAGAAGCTTCATGAAGCTCATTTTAAGGAAATGGAGTCCATTGAT
CAATATATTGAGAGAAAAAAGAAACATTTTGAAGAACACAATTCCATGAATGAACTGAAGCAGCCCATCAATAAG
GGAGGGGTCAGGACTCCAGTACCTCCAAGAGGAAGACTCTCTGTGGCTTCTACTCCCATCAGCCAACGACGCTCG
CAAGGCCGGTCTTGTGGCCCTGCAAGTCAGAGTACCTTGGGTCTGAAGGGGTCACTCAAGCGCTCTGCTATCTCT
GCAGCTAAAACGGGTGTCAGGTTTTTCAGCTGCTACTAAAGATAATGAGCATAAGCGTTCCTGACCAAGACTCCA
GCCAGAAAGTCTGCACATGTGACCGTGTCTGGGGGCACCCCAAAGGCGAGGCTGTGCTTGGGACACACAAATTA
AAGACCATCACGGGGAATTCTGCTGCTGTTATTACCCATTCAAGTTGACAACTGAGGCAACGCAGACTCCAGTC
TCCAATAAGAAACAGTGTTTGATCTTAAAGCAAGTTTGTCTCGTCCCCTCAACTATGAACCACACAAAGGAAAG
CTAAACCATGGGGCAATCTAAAGAAAATAATTATCTAAATCAACATGTCAACAGAATTAAGTTCTACAAGAAA
ACTTACAAACAACCCCATCTCCAGACAAAGGAAGAGCAACGGAAGAAACGCGAGCAAGAACGAAAGGAGAAGAAA
GCAAAGGTTTTGGGAATGCGAAGGGGCCTCATTTTGGCTGAAGATT**TAA**

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FIGURE 1336

MIIP SLEELDSLKYSDLQNLAKSLGLRANLRATKLLKALKGYIKHEARKGNENQDESQTSASSCDETEIQISNQE
EAERQPLGHVTKTRRRCKTVRVD PDSQQNHSEIKISNPTEFQNHKEQESQDLRATAKVPSPPEHQEAENAVSSG
NRDSKVPSEGKKSlytDESSKPGKNKRTAITTPNFKKLHEAHFKEMESIDQYIERKKKHFEHNSMNELKQPINK
GGVRTPVPPRGRLSVASTPISQRRSQGRSCGPASQSTLGLKGSLKRS AISAAKTGVRFSAATKDNEHKRSLTKTP
ARKSAHVTVSGGTPKGEAVLGTHKLKTITGNSAAVITPFKLTTEATQTPVSNKKPVFDLKASLSRPLNYEPHKGK
LKFWGQSKENNYLNQHVNRI NFYKKTYKQPHLQTKEEQRKKREQERKEKKAKVLGMRRGLILAED

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FIGURE 1337

ATACGGGCCGCGCCGGGCAAGAAGATGGCGGGATCAGTGGCCGACAGCGATGCCGTGGTGAAACTAGATGATGGC
CATTTAAACAACCTCTTTGAGCTCTCCAGTTCAAGCGGACGTGTACTTCCCACGACTGATAGTTCCATTTTGTGGG
CACATTAAAGGTGGCATGAGACCAGGCAAGAAGGTGTTAGTGATGGGCATCGTAGACCTCAACCCAGAGAGCTTT
GCAATCAGCTTGACCTGTGGGGACTCAGAAGACCCTCCTGCCGATGTGGCAATCGAACTCAAAGCTGTGTTTACA
GATCGGCAGCTACTCAGAAATTCTTGTATATCTGGGGAGAGGGGTGAAGAACAGTCAGCAATCCCTTACTTTCCA
TTCATTCCAGACCAGCCATTCAAGGGTGGAATTTCTTTGTGAGTACCCACGTTTCCGAGTGTTTGTGGATGGACAC
CAACTTTTTGATTTTTTACCATCGCATTCAAACGTTATCTGCAATTGACACCATAAAGATAAATGGAGACCTCCAG
ATCACCAAGCTTGGCTGATTTAAACCACCTCTATTTCAAATAGGATCACGTGCCACAACCTATCTGACTGTTGGTC
TGGAAGAAGTGTCCTAGCAAGATCTGGAGACTTAAAAAGAAAACAAAACAAATGGCAAGTTTCACTTAAGGGTG
GTTTGCCCTTAAGAAGAAAGCTGTTGGGACAAAGACACCGAGCCATTATACCCAGAATAAAATAATACATTTATG
CTGGATTTTATTCAGACCAACTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1338

MAGSVADSDAVVKLDDGHLNNSLSSPVQADVFPRLIVPFCGHIKGGMRPGKKVLVMGIVDLNPESFAISLTCGD
SEDPPADVAIELKAVFTDRQLLRNSCISGERGEEQSAIPYFPFIPDQPFPRVEILCEYPRFRVFVDGHQLFDFYHR
IQTLSAIDTIKINGDLQITKL

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FIGURE 1339

AGGTGTTTACCTGGCACTCAGGTGAGTGGTGCGCTCTGGCTGTTTTCTGTGCGAGCCGCCCCGCTCTTCCTTCAG
CGCGTCCCACAAATCCCGACGGCACGGAGGGGGCCCCAGGCCAAGGGCGATGGGCCCCTGAGCCCTGACACCGCTT
CGCCGCTGCTGCAGGTGCCCTGGCCGGCAGCGCCGCCGTGGTCCCGGAGCGCGGCGACATGCCGGAGCTGGTGG
TGACCGCGCTGCTGGCGCCGTCGCGCCTGTGCTGAAGCTGCTGCGCGCCTTCATGTGGAGCCTGGTGTTCCTCGG
TGGCGCTGGTGGCCGCGGCGGTCTACGGCTGCATAGCGCTCACGCACGTGCTGTGCCGGCCCCGGCGCGGCTGCT
GCGGGCGCCGTCGGAGCGCGTCCCCCGCTGCCTGAGCGACCCCTCGCTGGGTGAGCACGGTTTCCTGAACCTCA
AGAGCTCGGGCCTGCGTCTGCAC'TATGTCTCGGCTGGACGAGGTAACGGACCCCTCATGCTGTTTCTGCACGGCT
TCCCTGAGAACTGGTTCTCCTGGCGTTACCAGCTCCGGGAGTTCAGAGCCGCTTCCATGTTGTGGCTGTGGACT
TGCGAGGCTATGGCCCCCTCGGATGCACCTCGGGATGTGGACTGCTACACAATCGACCTGCTGCTGGTGGACATCA
AAGATGTCATCTTAGGCCTGGGTTACTCGAAGTGCATCCTTGTGGCCCATGACTGGGGTGGCCTCCTTGCCTGGC
ATTTCTCCATCTACTACCCATCCCTGGTCGAGCGGATGGTTGTGGTCAGTGGTGGCCCCATGTCGGTGTACCAAG
ACTATTCCCTGCACCACATCAGCCAGTTCTTCCGTTCCCACTACATGTTCTGTTCAGCTGCCCTGGCTGCCCCG
AGAAGCTGCTGTCTATGTCTGACTTTCAGATTCTGAAGACCACCCCTACCCACCGCAAGACAGGCATCCCATGCT
TGACCCCCAGCGAGCTCGAGGCCCTTCCTTTATAACTTCTCACAGCCTGGTGGCCTCACTGGGGCCCCCTCAACTACT
ACCGAAACCTCTTCAGGAACTTCCCCCTGGAACCCAGGAGCTGACCACACCCACATTGCTGCTGTGGGGGGAGA
AGGACACTTACTTGGAGCTGGGGCTGGTGGGAAGCCATCGGCAGCCGCTTGTGCCGGGGCCGCTTGGAGGCCACA
TCCTGCCAGGCATAGGGCATTGGATCCACAGAGCAACCCCCAGGAGATGCACCAGTACATGTGGGCCTTCTTGC
AAGACCTGCTGGACTAGTGGTCCCTTGCTGGCCTGCCCAGGAGGCATGGATACTCAGGAAGGAACACACACCCATT
ATCTGTGTGTGCCTGGGAGTCCATAAATGTCCATACATGGGTGAACTCTTGAATCGCTCATAGGCATGGGACTC
CTGGATCCCACACAAGCGCACCCATGGGTGCCTCGGGACACACCAACCCCTATACTCACACACAGGCATGGATGC
ATGTGTGTGTAAACAAACACTTTGACCCTGGGAACTGGGTATACCTCTCTTCCAGTGGAGCCAGATGCCGAGACCG
AGTGTCCCACCTCCTCCCTTCCCTGGGGCCTCACTCTGCGCTTTGCCAAAGTCGCTTCTCTGCCATAGCTGCACAG
ACCTTAAACCCCTGACCTTCCCTGTCCCTGCCTTCGACCTCCTGCCTGGGTCTTCAGCTCAGTGCTACTCTGAATAC
AATACTGCTGACCACATTTGGCTACTTCAGCTTAAATGTATGTTAATTGAAATGAAATACAATGAAATGCAGTG
CTCAGTCCCCAAAAAAAAAAAAAAAAA

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FIGURE 1340

MP ELVVTALLAPSR LSLKLLRAFMWSLVFSVALVAAAVYGCIALTHVLCRPRRGCCGRRRSASPACLS DPSLGEH
GFLNLKSSGLRLHYVSAGRGNGPLMLFLHGFPENWFSWRYQLREFQSRFHVVAVDLRGYGPSDAPRDVDCYTIDL
LLVDIKDVILGLGYSKCILVAHDWGALLAWHFSIYYPSLVERMVVVS GAPMSVYQDYSLHHISQFFRSHYMF LFQ
LPWLPEKLLSMSDFQILKTTLTHRKTGIPCLTPSELEAFLYNFSQPGGLTGPLNYRNLFRNFPLEPQELTTPTL
LLWGEKDTYLELGLVEAIGSRFVPGRLEAHILPGIGHWIPQSNPQEMHQYMWAF LQDLLD

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FIGURE 1341A

GTAGACAGATCCAGGCTCACCAGTCCTGTGCCACTGGGCTTTTGGCGTTCTGCACAAGGCCTACCCGCAGATGCC
ATGCCTGTCTCCCCAGCCTAATGGGCTTTGATGGGGGAAGAGGGTGGTTTCAGCCTCTCACGATGAGGAGGAAAGA
GCAAGTGTCTCTCGGACATTCTCCGGGTGTGAAATGTGCTCGCAGGAGGCTTTTCAGGCACAGAGGAGCCAG
CTGGTCGAGCTGCTGGTCTCAGGGTCCCTGGAAGGCTTCGAGAGTGTCTGGACTGGCTGCTGTCTGGGAGGTC
CTCTCTGGGAGGACTACGAGGGCTTCCACCTCCTGGGCCAGCCTCTCTCCCACTTGGCCAGGCGCCTTCTGGAC
ACCGTCTGGAATAAGGGTACTTGGGCTGTGAGAAGCTCATCGCGGCTGCCAAGAAGCCCAGGCCGACAGCCAG
TCCCCAAGCTGCATGGCTGCTGGGACCCCCACTCGCTCCACCCAGCCCCAGACCTGCAGAGTCACCGGCCAGCC
ATTGTCAGGAGGCTCCACAGCCATGTGGAGAATGTGAGACCTGGCATGGGAGCGGGGTTTCGTCAGCCAGTAT
GAATGTGATGAAATCAGGTTGCCGATCTTCACACCGTCCCAGAGGGCAAGAAGGCTGCTTGATCTTGCCACGGTG
AAAGCGAATGGATTGGCTGCCTTCTTCTACAACATGTTTCAGGAATTACCAGTCCCATTTGGCCCTGCCTTTGGAA
GCTGCCACATGCAAGAAGTATATGGCCAAGCTGAGGACCACGGTGTCTGCTCAGTCTCGCTTCTCAGTACCTAT
GATGGAGCAGAGACGCTCTGCCTGGAGGACATATACACAGAGAATGTCTGGAGGTCTGGGCAGATGTGGGCATG
GCTGGACCCCCGCAGAAGAGCCCAGCCACCCTGGGCTGGAGGAGCTCTTCAGCACCCCTGGCCACCTCAATGAC
GATGCGGACACTGTGCTGGTGGTGGGTGAGGCGGGCAGTGGCAAGAGCACGCTCCTGCAGCGGCTGCACCTTGCTG
TGGGCTGCAGGGCAAGACTTCCAGGAATTTCTCTTTGTCTTCCATTTCAGCTGCCGGCAGCTGCAGTGCATGGCC
AAACCACTCTCTGTGCGACTCTACTCTTTGAGCACTGCTGTTGGCCTGATGTTGGTCAAGAAGACATCTTCCAG
TTACTCTTGACCACCCTGACCGTGTCTGTTAACCTTTGATGGCTTTGACGAGTTCAAGTTCAGGTTACGGAT
CGTGAACGCCACTGCTCCCCGACCGACCCACCTCTGTCCAGACCCTGCTCTTCAACCTTCTGCAGGGCAACCTG
CTGAAGAATGCCCGCAAGGTGGTGAACAGCCGTCCGGCCGCTGTGTGGCGTTCTCAGGAAGTACATCCGCACC
GAGTTCAACCTCAAGGGCTTCTCTGAACAGGGCATCGAGCTGTACCTGAGGAAGCGCCATCATGAGCCCGGGGTG
GCGGACCGCCTCATCCGCTGCTCCAAGAGACCTCAGCCCTGCACGGTTTGTGCCACCTGCCTGTCTTCTCATGG
ATGGTGTCCAAATGCCACCAGGAAGTGTGCTGCAGGAGGGGGGTCCCCAAAGACCACTACAGATATGTACCTG
CTGATTCTGCAGCATTTTCTGCTGCATGCCACCCCCCAGACTCAGCTTCCCAAGGTCTGGGACCCAGTCTTCTT
CGGGGCCGCTCCCCACCTTCTGCACCTGGGCAGACTGGCTCTGTGGGGCCTGGGCATGTGCTGCTACGTGTTT
TCAGCCCAGCAGCTCCAGGCAGCACAGGTGAGCCCTGATGACATTTCTCTTGGCTTCTGGTGCCTGCCAAAGGT
GTCGTGCCAGGGAGTACGGCGCCCCGGAATTCCTTACATCACTTTCCAGTGCTTCTTTGCCGCTTCTACCTG
GCACTCAGTGTGATGTGCCACCAGCTTTGCTCAGACACCTCTTCAATTGTGGCAGGCCAGGCAACTCACCAATG
GCCAGGCTCCTGCCACGATGTGCATCCAGGCCTCGGAGGGAAAGGACAGCAGCGTGGCAGCTTTGCTGCAGAAG
GCCGAGCCGCACAACCTTCAATCACAGCAGCCTTCTGGCAGGGCTGTTGTGCCCGGAGCACTGGGGCCTGCTG
GCTGAGTGCCAGACATCTGAGAAGGCCCTGCTCCGGCGCCAGGCCTGTGCCCGCTGGTGTCTGGCCCGCAGCCTC
CGCAAGCACTTCCACTCCATCCCGCCAGCTGCACCGGGTGAGGCCAAGAGCGTGCATGCCATGCCCGGTTTCATC
TGGCTCATCCGGAGCCTGTACGAGATGCAGGAGGAGCGGCTGGCTCGGAAGGCTGCACGTGGCCTGAATGTTGGG
CACCTCAAGTTGACATTTTGCAGTGTGGGCCCCACTGAGTGTGCTGCCCTGGCCTTTGTGCTGCAGCACCTCCGG
CGGCCCCGTGGCCCTGCAGCTGGACTACAACCTCTGTGGGTGACATTGGCGTGGAGCAGCTGCTGCCTTGCTTGGT
GTCTGCAAGGCTCTGTATTTGCGCGATAACAATATCTCAGACCGAGGCATCTGCAAGCTCATTGAATGTGCTCTT
CACTGCGAGCAATTGCAGAAGTTAGCTCTATTCAACAACAAATTGACTGACGGCTGTGCACACTCCATGGCTAAG
CTCCTTGATGCAGGCAGAACTTCTTGGCATTGAGGCTGGGGAATAACTACATCACTGCCGCGGGAGCCCAAGTG
CTGGCCGAGGGGCTCCGAGGCAACACCTCCTTGCAGTTCTGGGATTCTGGGGCAACAGAGTGGGTGACGAGGGG
GCCAGGCCCTGGCTGAAGCCTTGGGTGATCACCAGAGCTTGAGGTGGCTCAGCCTGGTGGGGAACAACATTGGC
AGTGTGGGTGCCAAGCCTTGGCACTGATGCTGGCAAAGAACGTCATGCTAGAAGAACTCTGCCTGGAGGAGAAC
CATCTCCAGGATGAAGGTGTATGTTCTCTCGCAGAAGGACTGAAGAAAAATTCAAGTTTGAAAATCCTGAAGTTG
TCCAATAACTGCATCACCTACCTAGGGGCAGAAGCCCTCCTGCAGGCCCTTGAAAGGAATGACACCATCCTGGAA
GTCTGGCTCCGAGGGAACACTTTCTCTTAGAGGAGGTTGACAAGCTCGGCTGCAGGGACACCAGACTCTTGCTT
TGAAGTCTCCGGGAGGATGTTCTGCTCAGTTTGTGTTGTGAGCAGGCTGTGAGTTTGGGCCCCAGAGGCTGGGTGA
CATGTGTTGGCAGCCTCTTCAAAATGAGCCCTGTCTGCCTAAGGCTGAACTTGTGTTTCTGGGAACACCATAGGT
CACCTTTATCTGGCAGAGGAGGGAGCATCAGTGCCCTCCAGGATAGACTTTTCCCAAGCCTACTTTTGCCATTG
ACTTCTTCCCAAGATTCAATCCCAGGATGTACAAGGACAGCCCCCTCCTCCATAGTATGGGACTGGCCTCTGCTGA
TCCTCCCAGGCTTCCGTGTGGGTGAGTGGGGCCCATGGATGTGCTTGTGTTAACTGAGTGCCTTTTGGTGGAGAGGC

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FIGURE 1341B

CCGGCCTCTCACAAAAGACCCCTTACCACTGCTCTGATGAAGAGGAGTACACAGAACACATAATTCAGGAAGCAG
CTTTCCCATGTCTCGACTCATCCATCCAGGCCATTCCCCGTCTCTGGTTCCTCCCTCCTCCTGGACTCCTGCA
CACGCTCCTTCTCTGAGGCTGAAATTCAGAATATTAGTGACCTCAGCTTTGATATTTCACTTACAGCACCCCCA
ACCCTGGCACCCAGGGTGGGAAGGGCTACACCTTAGCCTGCCCTCCTTTCCGGTGTTTAAGACATTTTTGGAAGG
GGACACGTGACAGCCGTTTGTTCCCAAGACATTCTAGGTTTGCAAGAAAAATATGACCACACTCCAGCTGGGAT
CACATGTGGACTTTTTATTTCCAGTGAAATCAGTTACTCTTCAGTTAAGCCTTTGGAAACAGCTCGACTTTAAAAA
GCTCCAAATGCAGCTTTAAAAAATTAATCTGGGCCAGAATTTCAAACGGCCTCACTAGGCTTCTGGTTGATGCCT
GTGAACTGAACTCTGACAACAGACTTCTGAAATAGACCCACAAGAGGCAGTTCCATTTCAATTTGTGCCAGAATGC
TTTAGGATGTACAGTTATGGATTGAAAGTTTACAGGAAAAAAATTAGGCCGTTTCCTTCAAAGCAAATGTCTTCC
TGGATTATTCAAATGATGTAIGTTGAAGCCTTTGTAAATTGTCAGATGCTGTGCAAATGTTATTATTTTAAACA
TTATGATGTGTGAAAACIGGTTAATATTTATAGGTCAGTTTGTCTTACTGTCTTAAGTTTATACTCTTATAGACA
ACATGGCCGTGAACTTTATGCTGTAAATAATCAGAGGGGAATAAACTGTTGAGTCAAAAC

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FIGURE 1342

MGEEGGSASHDEEERASVLLGHSPGCEMCSQEAFQAQRSQVLVSGSLEGFESVLDWLLSWEVLSWEDYEGFH
LLGQPLSHLARRLD TVWNKGTWACQKLI AAAQEAQADSQSPKLHGCWDPHSLHPARDLQSHRPAIVRR LHSHE
NMLDLAWERGFVSQYECDEIRLP IFTPSQRARRLLDLATVKANGLAAFL LQH VQELPVPLALPLEAATCKK YMAK
LRTTVSAQSRFLSTYDGAETLCLEDIYTENVLEVWADVGMAGPPQKSPATLGLEELFSTPGHLNDDADTVLVVGE
AGSGKSTLLQRLHLLWAAGQDFQEF LFVFPFSCRQLQCMAPLSVRTLLFEHCCWPDVVGQEDIFQLLLDHPDRVL
LTFDGFDEFKFRFTDRERHCSP TDPTSVQTL LFNLLQGNLLKNARKVVT SRPAAVSAFLRKYIRTEFNLKGFSEQ
GIELYLRKRHHEPGVADR LIRLLQETSALHGLCHLPVFSWMVSKCHQELLLQEGGSPKTTTDMYLLILQHFL LHA
TPPDSASQGLGPSLLRGR LPTLLHLGR LALWGLGMCCYVFS AQQLQAAQVSPDDISLGFLVRAKGVVPGSTAPLE
FLHITFQCFFAAFYLA LADVPPALLRHLFNCGRPGNSPMARLLPTMCIQASEGKDSSVAALLQKAEPHNLQITA
AFLAGLLSREHWGLLAECQTSEKALLRRQACARWCLARSLRKHFHSIPPAAPGEAKSVHAMPGF IWLIRSLYEMQ
EERLARKAARGLNVGHLKLTFC SVGPTECAALAFVLQHLRRPVALQLDYNSVGDIGVEQLLPCLGVCKALYLRDN
NISDRGICKLIECALHCEQLQKLALFNNKLT DGAHSMAKLLACRQNF LALRLGNNYITAAGAQVLAEGLRGNTS
LQFLGFWGNRVGDEGAQALAEALGDHQSLRWLSLVGN NIGSVGAQALALMLAKNVMLEELCLEENHLQDEGVCSL
AEG LKKNSSLKILKLSNNCITYLGAEALLQALERNDTILEVWLRGNTFSLEEVDKLGCRDTRLLL

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FIGURE 1343

GGAAGGTGCGTCCGAGCCATGCGCGCTGCCAACCCGTGGGACCCGGCGTCCGCGCCTAACGGCGCTGGGCTAGTG
CTAGGCCACTTCATAGCTTCGGGGATGGTCAATCAGGAGATGTTAAACATGTCTAAGAAAACAGTTTCTTGTTTT
GTGAACTTCACCAGACTACAGCAGATCACAAATATTCAAGCTGAAATCTACCAGAAAAACCTGGAAATTGAACTC
CTGAAACTAGAAAAAGATACAGCAGATGTTGTTTCATCCTTTCTTTTTTGGCTCAGAAGTGTCTACTCTGCAAAGC
ATGAATAATCATTTGGAAGCAGTGCTGAAAGAGAAGAGATCCCTTAGGCAAAAGACTGTTGAAACCCATGTGCCAG
GAAACTTACCTATTGAAGCTGTTTATCACAGATATATGGTACATTTTGCTGGAGTTGGCTGTGACTTTTCATTGAG
AGATTAGAAACCCACCTTGAACAATTAGAAATATTCCTCATTTAGCTGCAAAATCTAAAGAAAATGAACCAGGCT
TTAGCAAAGATGGATATATTGGTGACTGAGACAGAAGAACTGGCAGAGAATATACTCAAGTGGCGTAAACAACAA
AACGAAGTTTCGTCTTGATCCCCAAAATATTAGCTGAAGAAAGTTATCTTTATAAACATGATATTATAATGCCT
CCTTTACCTTTTACTTCTAAAGTTCATGTCCAAACTATTAATGCCAAGTAGTCATCAACTTTATTTTTTGCTTAAT
TATGTGTAGTCATATGAAGTCTATTTCTAGTTGACTGTAACATGGGTATTAATAGTCTTTGCTGCTGGTAATACT
GAAAGAACCTGCTTTATATTGGAGTATCAAGATCTCAGGTTTATTAAGACCAAACCTGACTTTTCCTTTGTTTTTC
ATATATTTTTTATTCTACCTTTTCAGTAAACTAGAGAAGCTAAAAAAGAGCCATGACAATTTATTAATATAAGTGA
ATTAACCATTTCTCAGGTGGGAAATTCTCTTTTTTTAAAAATGTGTGTTTATCGTCTGGTGTGGTGGCTCACACC
TGTAATCCTAACACTTGGGGAGGCTGAGGCGGGCAGATCACTTAAACCCAGGAGTTCAAGACCAGCCTGGGTAAC
ATGGTGAAATCCCATATCTACAAAATAAACAAAAAATTAGCCGACCATGGTGGTGCATGCCTGTAGTCCCAGCTA
TTCGGGAGGCTGAGGTAAGAGGATCACCTAAGCCTGTGAGGTCATGGTTGCAATGAGTCATGATCACGCCACTGC
GCTACAGCCTGGGCGACACAGTAAGACCCTGTCTCAAAAAAAGAAGTGTGTTTCTGGCCAGGCACGGTGGCTCA
CGCCTGTAATCCCAGCACTTTGGGAGGCCTAGGTGGGCAGATCATGAGGTCAGGAGTTTCGAGACCAGCCTGGCCA
ACATGGCGAAACACCTGTCTCTACTAAAAATACAAAAATTAGGCCGGGCGCAGTGGCTCACACCTGTAATCCCAA
CACTTTGGGAGGCCGACCCAGATGGGTGGATCACCTGAGGTCAGGAGTTTGAGACCAGCCTTGACAACATGGTGA
AACCCCATCTCTGGTAGAAATATAAAAAATTAACCGGGCATGGTGGTGGACGCCTGTAATCCCAGCTACTTGGGA
GGCTGAGGCAGAATAATCGCTTGAACCCAGGAGGCAGAGGTTGCAGTAAGCCAAGATCGTGCCTCTGCACTCCAA
CCTGGGTGATGGAGCAAGACTCCATCTCC

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FIGURE 1344

MAAANPWDPASAPNGAGLVLGHFIA SGMVNQEMLNMSKKT VSCFVN FTRLQQITNIQAEIYQKNLEIELLKLEKD
TADV VHPFFLAQKCHTLQSMNNHLEAVLKEKRSLRQRLKPMCQENLP IEAVYHRYMVHLELAVTFIERLETHL
ETIRNIPHLAANLKKMNQALAKMDILVTETEELAENILKWRKQQNEVSSCIPKILAEESYLYKHD IIMPPLPFTS
KVHVQTINAK

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FIGURE 1345

GCTGAGCTGCAGGCGCGGCGAAACTTCCCTCTACCCGCCCGGCCGCGGCGCGCACCGTTGGCGCTGGACGCTTC
CTCCTTGGAAGCGCCCTCTCCCTCAGTCAATGGGAGAAAACCTTGTATAGATGCACTTCCTCTTACTATGAATTCTTC
AGAAAAGCAAGAGACTGTATGTATTTTTGGAAGTGGTGATTTTGGGAAGATCACTGGGATTGAAAATGCTCCAGTG
TGGTTATTCTGTTGTTTTTGGGAAGTCGAAACCCCGAGAAGACCACCCTACTGCCCAGTGGTGCGAAGTCTTGAG
CTATTTCAGAAGCAGCCAAGAAGTCTGACATCATAATCATAGCAATCCACAGAGAGCATTATGATTTTTCTCACAGA
ATTAACGAGGTTCTCAATGGAAAAATATTGGTAGACATCAGCAACAACCTCAAAAATCAATCAATATCCAGAATC
TAATGCAGAGTACCTTGCTCATTTGGTGCCAGGAGCCACGTGGTAAAAGCATTAAACACCATCTCAGCCTGGGC
TCTCCAGTCAGGAGCACTGGATGCAAGTCGGCAGGTGTTTGTGTGTGGAAATGACAGCAAAGCCAAGCAAAGAGT
GATGGATATTGTTTCGTAATCTTGACTTACTCCAATGGATCAAGGATCACTCATGGCAGCCAAAGAAATTGAAAA
GTACCCCTGCAGCTATTTCCAATGTGGAGGTTCCCTTCTATTTGTCTGCTGTGCTGTGTGTTCTTCTGTTTTT
CTATTGTGTTATAAGAGACGTAATCTACCCCTTATGTTTATGAAAAGAAAGATAATACATTTTCGTATGGCTATTTT
CATTCCAAATCGTATCTTTCCAATAACAGCACCTTACACTGCTTGCTTTGGTTTACCTCCCTGGTGTATTGCTG
CCATTCTACAACGTACCGAGGCACAAAATACCGTCGATTCCCAGACTGGCTTGACCACTGGATGCTTTGCCGAA
AGCAGCTTGGCTTGGTAGCTCTGGGATTTGCCTTCCTTCATGTCTCTACACACTTGTGATTCCCTATTGATATT
ATGTACGATGGAGATTGGGAACTTAACCGTTACCCAGGCAATACTCAAGAAGGAGAATCCATTTAGCACCTCCT
CAGCCTGGCTCAGTGATTCATATGTGGCTTTGGGAATACTTGGGTTTTTCTGTTTGTACTCTTGGGGAATCACT
TCTTTGCCATCTGTTAGCAATGCAGTCAACTGGAGAGAGTTCGGATTTGTCCAGTCCAAACTGGGTTATTTGACC
CTGATCTTGTGTACAGCCACACCCTGGTGTACGGTGGGAAGAGATTCTCAGCCCTTCAAATCTCAGATGGTAT
CTTCCTGCAGCCTACGTGTTAGGGCTTATCATTCTTGCACTGTGCTGGTGATCAAGTTTGTCTAATCATGCCA
TGTGTAGACAACACCCTTACAAGGATCCGCCAGGGCTGGGAAAGGAACTCAAAACACTAGAAAAAGCATTGAATG
GAAAATCAATATTTAAAACAAAGTTCAATTTAGCTGGATTTCTGAACTATGGTTTTGAATGTTTAAAGAAGAATG
ATGGGTACAGTTAGGAAAGTTTTTTTCTTACACCGTGAAGTGAAGGAAACATTGCTTGTCTTTGAGAAATTGACTG
ACATACTGGAAGAGAACACCATTTTATCTCAGGTTAGTGAAGAATCAGTGCAGGTCCCTGACTCTTATTTCCCA
GAGGCCATGGAGCTGAGATTGAGACTAGCCTTGTGGTTTTCACACTAAAGAGTTTCTTGTATGGGCAACATGCA
TGACCTAATGTCTTGCAAAATCCAATAGAAGTATTGCAGCTTCCTTCTCTGGCTCAAGGGCTGAGTTAAGTGAAA
GGAAAAACAGCACAAATGGTGACCACTGATAAAGGCTTTATTAGGTATATCTGAGGAAGTGGGTCACATGAAATGT
AAAAAGGGAATGAGGTTTTTGTGTTTTTGGGAAGTAAAGGCAAAACATAAATATTACCATGATGAATTTCTAGTGA
AATGACCCCTTGACTTTGCTTTTCTTAATACAGATATTTACTGAGAGGAACTATTTTTATAACACAAGAAAAATT
TACAATTGATTAAAAAGTATCCATGCTTGGATACATACGTATCTATAGAGCTGGCATGTAATTTCTCCTCTATAA
AGAATAGGTATAGGAAAGACTGAATAAAAATGGAGGGATATCCCTTGGATTTCACTTGCAATTGIGCAATAAGCA
AAGAAGGGTTGATAAAAGTTCTTGATCAAAAAGTTCAAAGAAACCAGAAATTTTAGACAGCAAGCTAAATAAATAT
TGTAATAATTGCACTATATTAGGTTAAGTATTATTTAGGTATTATAATATGCTTTGTAAATTTTATATTCCAAATA
TTGCTCAATATTTTTTCATCTATTAAATTAATTTCTAGTGTAACAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1346

MEKTCIDALPLTMNSSEKQETVCIFGTGDFGRSLGLKMLQCGYSVVFGSRNPQKTLLPSGAEVLSYSEAAKSD
IIIIIAIHREHYDFLTELTEVLNGKILVDISNNLKINQYPESNAEYLAHLVPGAHVVKAFNTISAWALQSGALDAS
RQVFVCGNDSKAKQRVMDIVRNGLTPMDQGSMAAKEIEKYPLQLFPMWRFPFYLSAVLCVFLFFYCVIRDVIY
PYVYEKKDNTFRMAISIPNRIFPITAPYTACFGLPPWCYCCHSTTVPRHKIPSIPRLA

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FIGURE 1347

GTGCTGCCTGGCGCTGGCTAGGAGGCAAACGCACGCGGGAAGAGCTGCTACCCATTCCAGGGACCCTGCCGCTGC
CCCTCTGAGGGGTCTGCACCTCCTGGGAGCAGGTGGGTCTCTGGGACGAGGGTCCATGGTGGATGGCTCTGGAGA
CGCTCCCGAGGCTGTGCCGTCCCGCTGCTGCACAGGTGCGAGGGTCAACGCAGAGGCTACTCGGGCTGGGGCTGG
GGCCGAGGGAGCCCGCACTGGAGCCCCATGTGGAACCCAAGGATGCAGCTGCTCTGCTAACACGGCAGCCCATCC
TTCGAGACTGTGACCTCGCCACAGTGGCCCTCAGCCCTCCACCTCCGGCGGGGGCGAGGGCCACCCACCTCCAAG
TCTCCAGCCATGACGACCTCCGCACTCCGGCGCCAGGTGAAGAACATCGTGCACAACACTACTCCGAGGCAGAAATC
AAGGTGCGCGAGGGCCACCAGCAATGACCCCTGGGGCCCCCCTAGTTTCGCTCATGTCCGAGATCGCTGACCTGACC
TTCAACACAGTGGCCTTACCCGAAGTCATGGGCATGCTGTGGCGGGCGCTCAATGACAGCGGCAAGAAGTGGCGG
CACGTGTACAAGGCTCTAACATTGCTGGACTACCTGCTCAAGACGGGCTCCGAGCGGGTGGCCCACCAGTGGCGC
GAGAACCTCTACACCATCCAGACACTCAAGGACTTCCAGTACATCGACCGCGACGGCAAGGACCAGGGCGTCAAC
GTGCGCGAGAAGGTCAAGCAGGTGATGGCCCTGCTCAAGGATGAGGAGCGGCTGCGGCAGGAGCGAACCCACGCC
CTCAAGACCAAGGAGCGCATGGCACTGGAGGGCATCGGCATTGGCAGTGGGCAGCTGGGCTTCAGCCGCCGCTAC
GGCGAGGACTACAGCCGCTCCCGGGGCTCCCCGTCTCTACAACCTCTCTCTCGTACCCCGCTATACCTCC
GACCTGGAGCAGGCCCGGCCTCAGACGTCAGGGGAAGAGGAACTGCAGCTGCAGCTGGCCCTCGCCATGAGCCGT
GAGGAGGCAGAGAAGCCTGTCCCCCAGCCTCCACAGGGACGAGGACCTGCAGCTGCAGCTGGCTCTGCGCCTG
AGCCGGCAGGAGCACGAGAAGGAGGTGAGGTCTGGCAGGGTGATGGCTCCCCCATGGCCAATGGTGCAGGGGCC
GTGGTCCACCATCAGCGGGACAGAGAGCCTGAGAGAGAGGAGAGAAAGGAGGAGGAGAAGCTAAAAACAGCCAG
TCCTCCATCTGGACTTGGCTGACATCTTCGTACCTGCCCTGGCCCCGCCCTCCACACACTGCTCTGCTGACCCA
TGGGACATCCAGGTTTTAGGCCGAACACAGAGGCCAGTGGATCTCTCTGGGGGCCCTTCTGCAGACCCCTGGTCT
CCGATCCCCCTCAGGAACCGTCTGTCCGAAGCCAGCCCTGGGATCTGACTCCCATGCTCTCTCTCTGAGCCC
TGGGGCAGGACCCAGTGTGCTGCTGGGCCCCCACCACAGACCCCTGGGCCCTGAACCTCTCCCCACTACAAA
CTCCCCAGCACTGGGGCTGACCCTTGGGGAGCCTCCCTGGAGACCTCCGACACACCTGGTGGTGCCTCGACCTTT
GACCCATTTGCCAAACCTCCAGAATCCACAGAGACCAAGGAGGGGCTGGAGCAGGCCCTGCCCTCTGGGAAGCCC
AGCAGCCCTGTGGAGCTGGACCTGTTTGGAGACCCAGCCCCAGTTCCAAGCAAAATGGCACGAAGGAGCCAGAT
GCCCTGGACCTGGGCATACTAGGGGAAGCACTAACCAGCCAAGCAAAAGAGGCCCGAGCTTGCCGGACTCCCGAG
TCCTTCCTGGGTCCCTCAGCTTCCTCCTTGGTCAACCTTGACTCGTTGGTCAAGGCACCCAGGTTGCAAAGACC
CGGAACCCCTTCCTGACAGGTCTCAGCGCTCCGTCCCCCACCAACCCGTTTCGGCGCGGGCGAGACGGGCAGGCCG
ACGCTAAACCAGATGCGCACCGGCTCGCCGGCGCTGGGCCTGGCAGGCGGGCCTGTGGGGGCGCCCCCTGGGCTCC
ATGACCTACAGCGCTCTCTGCCCTCCCGCTCAGCAGCGTGCCAGCTGGCTTGACCCTCCCCGCCTCGGTTAGC
GTCTTCCCGCAGGCCGGAGCCTTCGCACCGCAGCCGCTGCTGCCCACGCCGAGCTCAGCCGGGCCGCGGCCCCCG
CCCCCGCAGACCGGCACCAACCCCTTCCTCTTGAGCCCCGCCCCGTCCCATACCGCCTGCGCTGCGCCGGACGC
TCCGCGGCCCCGCTCCGGACCCGGGGCTGGGCGGGGCGCCGGTGCTAGTGGAACGCCGTGCCAGTGGCGGCTGG
TATCCCGCGGCGGCTCTGGAAGCTGGACGCGGACCACGGCCCCGGGAGCTAGAACTGAACGCCCGCATAATAAAG
ACTGGAACCCACGTTCTCAGCTCTCACCAAGTGGACTTTTTGCGGGGTGTGGCGGCCGGGTCTCGACCACAGCGT
GGATCACCGGCTGTTTAGGAACTGCAGCTGCACAACGTGGGGTGCAAACTGCCCGCTTCCTTTACAGCTCTT
CTCAACCCCTCACCTCCATCCCCCGTCAACCAGGCACCTTCGCTTCCAGATGCTGCCAGGCTGTCACTCAATTCCG
TCATTTCAATTCATTTATCACACATGGGCACTGGGGTTGGGCTAACAGCAAGAGACAATAGGCCCTTTGTTCTATT
TATTGGGTACTGCTTACGTGCTAAGCAGATCAGTTTATTTAATGCTTGCAACGACTCTCTGAGGTAGAAAATATT
GTTAATTCGTTTCAGGATCCCGGCTACATAATCTGTGGGGCTCAATACAAAATAAAAATGTAGGGGCTCCTTGTT
CAAAAAAAAAAAAAAAAAA

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FIGURE 1348

MTTSALRRQVKNIHVHNYSEAEIKVREATSNDPWGPPSSLMSEIADLTFNTVAFTEVMGMLWRRNLNDSGKNWRHVY
KALTLLDYLLKTGSEVAHQCRENLYTIQTLKDFQYIDRDGKDQGVNVREKVKQVMALLKDEERLRQERTHALKT
KERMALEGIGIGSGQLGFSRRYGEDYSRSGSPSSYNSSSSSPRYTSDLEQARPQTSGEEELQLQLALAMSREEA
EKPVPFASHRDEDLQLQLALRLSRQEHEKEVRSWQGDGSPMANGAGAVVHHQRDREPEREERKEEEKLKTSQSSI
LDLADIFVPALAPPSTHCSADPWDIPGFRPNTEASGSSWGSPADPWSPIPSGTVLSRSQPWDLTPMLSSSEPWGR
TPVLPAGPPTTDPWALNSPHYKLPSTGADPWGASLETSDTPGGASTFDPFAKPPETETKEGLEQALPSGKPSSP
VELDLFGDPSPSSKQNGTKEPDALDLGILGEALTQPSKEARACRTPESEFLGPSASSLVNLDLVLKAPQVAKTRNP
FLTGLSAPSPTNPFAGGETGRPTLNQMRITGSPALGLAGGPVGAPLGSMYTSASLPLPLSSVPAGLTLPASVSVFP
QAGAFAPQPLLPTPSSAGPRPPPPQTGTNPFL

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FIGURE 1349

GGCACGAGCCACGATTTCAGTCCCCTGGACTGTAGATAAAGACCCTTTCTTGCCAGGTGCTGAGACAACCACACTA
TGAGAGGCACTCCAGGAGACGCTGATGGTGGAGGAAGGGCCGTCTATCAATCAATGTGTAAACCTATTACTGGGA
CTATTAATGATTTGAATCAGCAAGTGTGGACCCTTCAGGGTCAGAACCTTGTGGCAGTTCCACGAAGTGACAGTG
TGACCCCACTGCTGTTGCTGTTATCACATGCAAGTATCCAGAGGCTCTTGAGCAAGGCAGAGGGGATCCCATT
ATTTGGGAATCCAGAATCCAGAAATGTGTTTGTATTGTGAGAAGGTTGGAGAACAGCCCACATTGCAGCTAAAAG
AGCAGAAGATCATGGATCTGTATGGCCAACCCGAGCCCGTGAAACCTTCCTTTTCTACCGTGCCAAGACTGGTA
GGACCTCCACCCTTGAGTCTGTGGCCTTCCCGGACTGGTTTCATTGCCTCCTCCAAGAGAGACCAGCCCATCATT
TGACTTCAGAACTTGGAAGTCATACAACACTGCCTTTGAATTAAATATAAATGACTGAACTCAGCCTAGAGGTG
GCAGCTTGGTCTTTGTCTTAAAGTTTCTGGTTCCCAATGTGTTTTCGTCTACATTTTCTTAGTGTCATTTTCAG
CTGGTGCTGAGACAGGGGCAAGGCTGCTGTTATCATCTCATTTTATAATGAAGAAGAAGCAATTACTTCATAGCA
ACTGAAGAACAGGATGTGGCCTCAGAAGCAGGAGAGCTGGGTGGTATAAGGCTGTCTCTCAAGCTGGTGCTGTG
TAGGCCACAAGGCATCTGCATGAGTGACTTTAAGACTCAAAGACCAAACACTGAGCTTTCTTCTAGGGGTGGGTA
TGAAGATGCTTCAGAGCTCATGCGCGTTACCCACGATGGCATGACTAGCACAGAGCTGATCTCTGTTTCTGTTTT
GCTTTATTCCCTCTTGGGATGATATCATCCAGTCTTTATATGTTGCCAATATACCTCATTGTGTGTAATAGAACC
TTCTTAGCATTAAAGACCTTGTAACAACAAAATAATTCTTGTGTTAAGTTAAATCATTTTTGTCCTAATTGTAATGT
GTAATCTTAAAGTTAAATAAACTTTGTGTATTTATATAATAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1350

MRGTPGDADGGGRAVYQSMCKPITGTINDLNQQVWTLQGQNLVAVPRSDSVTPVTVAVITCKYPEALEQGRGDPI
YLGIQNP EMC LYCEKVGEQPTLQLKEQKIMDLYGQPEPVKPFIFYRAKTGRTSTLESVAFPDWFIASSKRDQPII
LTSELGKSYNTAFELNIND

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FIGURE 1351

GGAAGCTCAGCAGTGTCCTGTCGCCATTTCCTTGGCCATAGAAAACAATGTATTTGAATTTTGATGTAAGCATA
GCAAATTGAAGATGAAGATGACACGTTGATTTCTTGTTTGAAATTAACCAAGTCCCGAGAAAAGAAAGTGAATAG
TGTTAGCACGAGGAGGAAGGAAGAAATGGAGATTAGATTGGATACTCTTTCTGCATCACTGGGTAGATCCAGCAC
TTTAAATGACTGCAACTTGGAAGATAAATTAGCTTGGTATGAAGGTGAAGCTTACATGTGGCATCACTGGAAGCC
TTTTCTGAAAACCTCTCTGACATGTCTTGATTTCCAAATAGCACAAAGTTGGACCTTGGGACTACTGCTCCTC
TTGTATTGCCACACACGTCTCAAGTCTTCTGCTCAGATATGGATCTCCTACATTCATGGCGAAGCAGCAGTTT
TGGGAATTTTCGATCGTTTTTCGGAATAATTCTTTATCAAAACCAGATGATTCAACTGAGGCACATGAAGGAGATCC
CACAAATGGAAGTGGAGAACAAGTAAACCTTCAAATAATGGAGGCGGTTTGGGTAAAAAATGAGAGCTATTTTC
ATGGACAATGAAGAAAAAAGTGGGTAAAAAGTACATCAAAGCCCTTTCTGAGGAAAAGGATGAGGAAGATGGAGA
GAATGCCCCACCATATAGAAACAGTGACCCTGTGATTGGGACCCACACAGAGAAGGTGTCCCTCAAAGCCAGTGA
CTCCATGGATAGTCTCTACAGTGGACAGAGCTCATCAAGTGGCATAACAAGCTGTTTCAGATGGTACAAGTAACCG
GGACAGCTTTTCGACTGGATGACGATGGCCCTATTTCAGGACCATTCTGTGGCCGTGCCAGAGTGCATACGGATTT
CACGCCAAGTCCCTATGACACTGACTCCCTCAAATCAAGAAAGGAGACATCATAGACATTATTTGCAAAACACC
AATGGGGATGTGGACAGGAATGTTGAACAATAAAGTGGGAACTTCAAATTCATTTATGTGGATGTCATCTCAGA
AGAGGAAGCAGCCCCCAAGAAAATAAAGGCAAACCGAAGGAGTAACAGCAAAAAATCCAAGACTCTGCAGGAGTT
CCTAGAGAGGATTCATCTGCAGGAATACACCTCAACACTTTTGCTCAATGGTTATGAGACTCTAGAAGATTTAAA
AGATATAAAAGAGAGTCACCTCATTGAATTAATATTGAAAACCCAGATGACAGAAGAAGGTTACTATCAGCTGC
TGAAAACCTTCCTTGAAGAAGAAATTATTCAAGAGCAAGAAAATGAACCTGAGCCCCCTATCCTTGAGCTCAGACAT
CTCCTTAAATAAGTCACAGTTAGATGACTGCCCAAGGGACTCTGGTTGCTATATCTCATCAGGAAATTCAGATAA
TGGCAAAGAGGATCTGGAGTCTGAAAATCTGTCTGACATGGTACATAAGATTATTATCACAGAGCCAAGTGACTG
AACAACGCATTCCCAACTATATATCTACAGATGCATTCCATTTTAACTCTTCTTGAGCTAAAACGTCAAATAGGAG
AGGAAGATAAGATAAATATTTGTAAATAAAACCTAAAGTTTAAATGTTTTAATCTGAATAATTGTACATAAAATT
TTGTATCTCTAACATTCCAAATTACTGTCAATAAAATATATATTTTATTATTTTAAATGCTATGTGTTAATATTTT
ACTTGCTTGTATTAGAAAGGCAAAATGTAAGACTTTGGTATGTGTGACATATGCTTTATTTGGCTTTATTTTACA
AGTACAGTATCTGCAAAAAACAAGTAACCTTTTTTCATACCTGCCAGTTTTGAATTTATATATGTTATTGAACA
AATAGTAATAGAGGATTCGCTGTTGAAACAAGTTGTCCAAGCAATGTTATATTCATTTTTTATACTTATTGGGAAA
GTGTGAGTTAATATTGGACACATTTTATCCTGATCCACAGTGGAGTTTTAGTAATTATATTTTGTGATTTCTTC
ATTTTGTCTTCTGGTATAAAAGTAGAGATAATGTGTAGTCACTTCTGATTTAGTGAAACCAATTGTAATAATTGT
GGAAATGTTTTGTCTTTAAGTGTAATATTTTAAATTTGACATACCCTAATGTTAATAATAAAAAGAACTATTT
GCATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1352

MEIRLDTLSASLGRSSTLNDCNLEDKLAWYEGEAYMWHHWKPFPENPLWTCCLDFQIAQVGPWDYCSSCIRHTRLK
SSCSDMDLLHSWRSSSFGNFDRFRNNSLSKPDDSTEAEHGDPTNGSGEQSKTSNNGGGLGKKMRAISWTMKKKVG
KKYIKALSEEKDEEDGENAHPYRNSDPVIGTHTEKVS LKASDSMDSLYSGQSSSSGITSCSDGTSNRDSFRLDDD
GPYSGPFCGRARVHTDFTPSPYD TDSLKIKKGDIIIDIICKTPMGMWTGMLNNKVG NFKFIYVDVISEEEAAPKKI
KANRRSNSKKS KTLQEFLERIHLQEY TSTLLLNGYETLED LKDIKESH LIELNIENPDDRRRLLSAAENFLEEEI
IQEQENEPEPLSLSSDISLNKSQLDDCPRDSGCYISSGNSDNGKEDLESENLSDMVHKIIITEPSD

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FIGURE 1353

[illegible]

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FIGURE 1354

MTVEKEAPDAHFTVDKQNISLWPREPPPKSGPSLVPGKTPTVRAALICLTVLVASVLLQAVLYPRFMGTISDVK
TNVQLLKGRVDNISTLDSEIKKNSDGMEAAGVQIQMVNESLGYVRSQFLKLKTSVEKANAQIQILTRSWEEVSTL
NAQIPELKSDLEKASALNTKIRALQGSLENMSKLLKRQNDILQVVSQGWKYFKGNFYFSLIPKTWYSAEQFCVS
RNSHLTSVTSESEQEFLYKTAGGLIYWIGLTKAGMEGDWSWVDDTPFNKVQSARFWIPGEPNNAGNNEHCGNIKA
PSLQAWNDAPCDKTFLEFICKRPYPSEP

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FIGURE 1355

ACTGTTTCACACTTTTCTGCTTCTGGAAGGTGCTGGACAAAAACATGGAAC TAATTTCCCCAACAGTGATTATAA
TCCTGGGTTGCCTTGCTCTGTTCTTACTCCTTCAGCGGAAGAATTTGCGTAGACCCCGTGTCATCAAGGGCTGGA
TTCTTTGGATTGGAGTTGGATTGAGTTTGGGAAAGCCCCCTCTAGAATTTATAGAGAAAGCAAGAATCAAGTATG
GACCAATATTTACAGTCTTTGCTATGGGAAACCGAATGACCTTTGTTACTGAAGAAGAAGGAATTAATGTGTTTC
TAAAATCCAAAAAAGTAGATTTTGAAGTAGCAGTGCAAAATATCGTTTATCGTACAGCATCAATTCCAAAGAATG
TCTTTTGTAGCACTGCATGAAAACTCTATATTATGTTGAAAGGGAAAAATGGGGACTGTCAATCTCCATCAGTTTA
CTGGGCAACTGACTGAAGAATTACATGAACAACCTGGAGAATTTAGGCACCTCATGGGACAATGGACCTGAACAACCT
TAGTAAGACATCTCCTTTATCCAGTCACAGTGAATATGCTCTTTAATAAAAGTTTGTTCACAAACAAGAAAA
AAATCAAGGAGTTCCATCAGTATTTTCAAGTTTATGATGAAGATTTTGAGTATGGGTCCCAGTTGCCAGAGTGTC
TTCTAAGAACTGGTCAAAATCCAAAAAGTGTTTCTGGAACCTGTTTGAGAAAAACATTCCAGATATAAAAGCAT
GTAAATCTGCAAAAGATAATTCCATGACATTATTGCAAGCTACGCTGGATATTGTAGAGACGGAAACAAGTAAGG
AAAACCTACCCAATTATGGGCTCTTACTGCTTTGGGCTTCTCTGTCTAATGCTGTTCTGTTGCATTTTGGACAC
TTGCATACGTCCTTTCTCATCTGATATCCACAAGGCCATTATGGAAGGCATATCTTCTGTGTTTGGCAAAGCAG
GCAAAGATAAGATTAAAGTGTCTGAGGATGACCTGGAGAACTCCTTCTAATTAAATGGTGTGTTTTGGAAACCA
TTCGTTTAAAAGCTCCTGGTGTCTATTACTAGAAAAGTGGTGAAGCCTGTGGAAATTTTGAATTACATCATTCTT
CTGGTGACTTGTGATGTTGTCTCCATTTTGGCTGCATAGAAATCCAAAGTATTTTCTGAGCCTGAATTGTTCA
AACCTGAACGTTGGAAAAAGGCAAAATTTAGAGAAGCACTCTTCTTGGACTGCTTCATGGCATTGGAAGCGGGA
AGTTCCAGTGTCTGCAAGGTGGTTTGCTCTGTTAGAGGTTGAGATGTGTATTATTTTAATACTTTATAAATATG
ACTGTAGTCTTCTGGACCCATTACCCAAACAGAGTTATCTCCATTTGGTGGGTGTCCCCCAGCCGGAAGGGCAAT
GCCGAATTGAATATAAACAAGAATATGACATCTGTTGGGCCTCACAAAGGATCAGGGCCTTCTGGAGGAGTGGCA
CTACCCACCTGGCAGCACCTAGACCTGAGCTCTACAAAAACACACTGCTTCACTTTGTTTTAGGACTTAGTTCA
AGAACACATTCAAATGGTGCATGTGTTTGGTATCTTCAACAGTAGACCAAGAATCTAACATCACTCTCAGTAATA
TAGAGACCGGAATACATGGTTTATAGGAAATGATCAAATGATCCAAAAAACTCCACATTTTTTAAGAAGTTGGA
ATTTGATTTTCATGCATAACTGTATTAAACATTAAATAGAAATAATGTCATTTGAATGAAAATCTTATCACATTA
AATTCAGTGTGAAGGCAGCATACTTAAAGGAATTTGATTTTCATGCATAACTGTATTAAACATTAAATAGAAATA
ATGTCATTTGAATGAAAATCTTATCACATTAAATTCAGTGTGAAGGCAGCATACTTAAATTTTTATTTTGAAAAG
TCTAAAAGGCTTAGATTTTTTAAATTTAATAATTATTTCTACAAATTTTCTATTTTTCTTGAGGTGATTCTCAAC
TAGCAATTGGAACCTAGGCTCTATTAAACATAATTCTTTATTGTAAACGTATCTAATGCTAAAAGTAATAAAAT
GGTAGTTTTCTGAG

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FIGURE 1356

MELISPTVIIILGCLALFLLLQRKNLRRPPCIKGWIPWIGVGFEFGKAPLEFIEKARIKYGPIFTVFAMGNRMTF
VTEEEGINVFLKSKKVD FELAVQNIVYRTASIPKNVFLALHEKLYIMLKGMGTVNLHQFTGQLTEELHEQLENL
GTHGTMDLNNLVRHLLYPVTVNMLFNKSLFSTNKKKIKEFHQYFQVYDEDFEYGSQ LPECLLRNWSKSKKWFL EL
FEKNIPDIKACKSAKDNSMTLLQATLDIVETETETSKENSPNYGLLLLWASLSNAV PVAFWTLAYVLSHPDIHKAIM
EGISSVFGKAGDKIKVSEDDLEKLLLIKWCVLETIRLKAPGVITRKVVKPVEILNYIIPSGDLLMLSPFWLHRN
PKYFPEPELFFKPERWKKANLEKHSFLDCFMAFGSGKFQCPARWFALLEVQMCIIILILYKYDCSLLDPLPKQSYLH
LVGVPQPEGQCRIEYKQRI

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FIGURE 1357

AAAGTTGCTAGCTGGGGGCAGAGACGGCCACGCGGTTGCAGGAGTAAGAGATCCCTCTGTGGCGAATTGGCCAAC
GGCTCCTTTCAACCCTGCCTCGTTGGTGGCCACTGGAGAAGCGCGGGGGGCTCCCCCAGACAGCCGTGGGGACAA
GTTAGAGCCAGCACTTTACCCCGGGCCTTGCGTGTAGCTTCCCCCTCCCCTACTCTCGGTGCCCTGGTGTCTGGAG
GGGGGTTGTGGGGGTGTGCCCGCCTTACATGGTCCACCACCCGGGCAACCCCTCTGGGCTTGTGTTCCATCTCACT
CTTGCTTCCCTGTACTGTGGTCAAGGGGAACCACTGCATCATGTCCCGGTATAGCTACCAGAGTCTCCTGGACTGG
CTCTATGGGGGCGTGGACCCCACTTTTGCAGGCAATGGGGGCCCCGACTGTGCTGCCCTTCCCTCTCTTGGCAGCAG
CGGCTGCTGGAAAGTGTGGTGGTCCTGACCCTGGCTCTGTTGGAGATCCTGGTGGCCCTGCGGCACATCCTGAGG
CAGACGAAGGAGGACGGTAGGGGTAGCCCTGGCAGCCAGCCAGAGCAGGTGACCCAGCGGCCAGAGGAAGGCAAG
GAGAGCCTGAGCAAGAATCTGCTCTTAGTAGCCCTGTGCCTGACCTTCGGGGTGGAGGTGGGCTTTAAGTTCGCC
ACCAAGACCGTCATCTACCTGCTCAACCCCTGTACCTGGTCACCATGATGCATCTCCCCTTTGAATTGGAGATT
TACTACATTACAGCATGTTATGCTCTACGTGGTACCCATCTACCTGCTTTGGAAAGGAGGTGCTTACACTCCAGAG
CCCCCTCAGCAGTTTCCGGTGGGCTCTTCTCTCAACTGGCCTCATGTTCTTTATCACTTCAGCGTCTTGCAGATC
CTCGGCCTGGTCACCGAAGTGAATTTGAACAACATGCTGTGTCCGGCCATCTCAGACCCATTCTACGGCCCCCTGG
TATCGCATCTGGGCCTCGGGACACCAGACTCTCATGACCATGACCCACGGGAAGCTGGTCATCCTGTTCTCATAC
ATGGCTGGGCCCTTGTGTAAATATCTGCTGGATTTGCTCCGGCTTCCAGCCAAGAAAATAGACTGAAGGTGCTTA
TTTTTTTTTTTTTCTCCTCCCTGAGGAAGCAAGTCGTGACTTGACTTGGAGAACACCCAGTTCTTGATAAAATCATG
GGAGAGGGCAGTAGGATGTTTGGTGTATTTCTTTTTCTCCTTTCTGTCCCTTTCTTCTACCACTCTTCCTTTCC
CAGCTCTTCCCCCTACGATGTCTCCTTGAGCCTGGGGTGTAGTGTGGGCGCTGGATTTTCTCCTTCCCTTTGG
CTCTCTCCTCAAACCTTCATCGCATTATAGAAGCTGCTTGCAGGGTCGCCGGGCTAACCAGGGTGATCGGCGAAC
TTTACCGTACAGTACCTCAGTCTAGCTGTGAGATCACCCTTTTGCTGTAGCCTCTGTTGAGGTTTTTATATTTG
TGATCATTGGTAATTCAGTGTCTATGAAGTGGGCACAGCTCCCCACAGAGAGCAAGTTGTCAGCAGGTCTCTGT
GCACTGGTATTGGGGCAGGGCAGTGCCTGGGGGTAAGCTAGGTGGCTCAGGGAGTGGCAGAAGGGCCATTTTTTC
CCTCTGCCAAAAAGACTTCCCTGGATTTGTAGATGTTGACCCAGAGTCTCTGTCCCCCTCCTGAAGAGGATTTTC
TTACTGGTTTCTACTGAAGGGGAGGTAGGGGAGGAGGAAAAAAGGACCATGTGTGATGCTGTTAGACAAGACACT
GACGCTGATTATGGAGGGTCTCCTGCAGGCCCTTGTGGGCTCCTTGGCAAGGCCCCAGGCTGGGAAGGAGCTCCC
CCCACTGCCCATCCTGCCCGCTTTGTGGCGGGTAGAGTCAGTGACAGGGAGGCAGCCCTCCTTTTGTGTATATAG
AGTGAGCTGATTTGGGCTCAGGAAAACCTAGTCGCTTGTGCTCTCGTCTGTGACATTTTTGTACACTGGTTTGC
TACTCATGGCAAGAAACAGACAAAGCCCCATGAAAAATAAAACAAAAACAAAAGTCATTTCAAACAAAGCTGTTGT
TTTGAAAACTCTTGCTTTCTTTTGGTGTCCATTTTGTGTTCTATTTTAAAGAACTTTTCATTTATATTGGTGTTA
TTGTAGTGAAGAGAATGTGATAGGCTGATCTGTAATGGTTTCTGTGAGGAGCTTAGCAAATGCCTCTGCCCTCT
TCCCCTACCCCTGTCTTCCCTCAGTTCCCAGCTGGGATTGCTATGCACTGGGCAGACCCGTCAGTGTCTCCCCTG
AACCCCCACACAGTGGCTTCCCTTAGAACCAGTCTTTGTACTCTCCCTAAACAGCAGCAGGCTTAGGATTTTTGT
CAGGCTGGTTCTTGCCTGCTCTGTGCCCCCACCAGTTTGTCTACCTCTTGGGGCATTGTTGTAATGTGTTTTCTCT
GTCTTGTAACCTTTTGAATTGTACCGAAATGGTATCTGCAGTCGCCCTTGGAAATAAATGGTCATTAATTTGTG
TACTTAGCATTCTGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1358

MPALYCPSFGTGVREKLELAHPVASGAVFPAPPQGFPVSAKPVPQPGFRVPFASVWELCACVRVFVEEGSFLSNG
LRKGKEYSLQPLGSLGQCGPRTVCGAGQLVASTPNSRDPVTPASGPPCPQYLVLYTKDDLHLPPRGTTVTCSS
VSL

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FIGURE 1359

GAGCTCACAGACCCATAATCTCTGCATTTCTCTAACAAAGTTGTTTGGATGGAGTTGCTTCTCCATTTGCCCTACATCTACAT
AAAAATTCACCCCTCCCGGTTTCTTCTGCCCTCTCTAGTCCCGGTGAGGAGGGGGAGGGACGCGGGTTCGG
CGCGGGTGGGGGAGGGCGGACCCGACGCACAGGGCCAGCGCCGAGGCGCCCCCTCTCCGCCAGCGGTTGACGCC
CCGGATTATTTATCCGCAAAGTCCC CGCGCGGCCATTGGGCCGAGGCCCGAGTGTACAGCGAGTCCC GGCTCG
CCATTGGCTCCGCACACGTGCGGCCCTGACTCACGTGCTTCCGGTTTGAAGGCAAAAAGTGTGCCCTGGGTGATTT
TTTTTTTAAAGCGAGAGAGTTTGTGCAAAGATCCGAGCTGTACAGAGATTTGAAAAAAAAAAAAAAAAACAAAAAA
AAAAACCAGCCCGGCGCTGGCGGAGACGCGCTCTCCCTGCAAAAAAAGCAAAGGCATTAAAGGCGCTGCCAGCC
TCACGCTCTGGGCACAGCTGAGCGTGACACTCGGGGAAGTCAAACCCCTCACTACTGCCCTAGGAAGATGGCTAGA
CTTTAAATACTATTTTTTTTCCCTTTAAGAAAAAAATATTGGAGCTTTTTTTCTTGCTTTCTTTTTCTTTCTT
TTTCTTTTTTTCTTTTCAATTTTTTTGGCCGTGGCTTACTCCCATTTAAATCAAATCATTGAATCTGGTTGCAGAA
AGAAAAAAGAAATAGCCAAGTGTCTCCATATCTGGATGTCTACAAATTAGAGAGGGAGAGACAGCGAGATCTATC
TGCTAGATAAGAACGAGCGATCCAGGCCAGACGCCCTGAGCTTTTTTCTGCAACCGCCCCGTGCCCTTCGCTGAGG
CTTCGCCCTGCCCTCCTTCCCTCCGCGCACCCCCACGGGCCGTGGCAAAGTGGGGTGGGGAGCGAGGCGGTGGGGG
GGGGGCCGGCGCGGCCGGGCCGGGGCGGGCGGGCGGAGCAGTGAAGAACAGCAGCCGGAACCTAAAAGTCAGCG
CGACTCGGCCCTCGGCGGCGCGGCCGGCGGACTCCGGGGCGGCTCAGCCTGAGCCTCAGTCCGGGCGCCAGCGG
CAGCAGCGGCAGCGGCAGCGATGGAGACAGCGTGCCGGTGTCCCCGAGCCTGCGCCCCCTCGCCGCCCGCGGC
GCCCTTGCCCTGCCGCCCTGGCCACCACCCGCACCTCCCCCACACCCCCCGCCCCCGCCTCAGCATCTCGC
GGCGCCTGCTCACCAGCCGAGCCAGCGGCCAGCTGCACCGCACCAACTTTTTATCGACAACATCCTGAG
GCCGGACTTCGGCTGCAAAAAGGAGCAGCCGCCACCGCAGCTTCTGGTGGCTGCGGCGGCCAGAGGAGGCGCAGG
AGGAGGAGGCCGGGTGAGCGTGACAGAGGCCAGACTGCCGCAGGTAGAGTCCACCCGTTGGGCACCCG
GGCGCCAGGCGCTGCCCTCGCTCCTGTGCGCCCCGGACGCGAACTGTGGCCACCCGACGGCTCCAGCCAGCCGC
CGCCGGCGCGGGCGCGTCTAAAGCTGGGAACCGGCTGCGGCGGCGGCGGCGGCGGCGGCGGAGTGGCGGCGGC
GGCGGCGGCGCGCAGCAGCCAAGCCCTCGGACACCGGTGGCGGCGGCGAGTGGAGGCGGCGGGGAGCCCCGGAGC
GCAGGGCACCAAATACCCGGAGCACGGCAACCGGCTATCCTACTTATGGGCTCAGCCAACGGCGGGCCCGTGGT
CAAACTGACTCGCAGCAGCCTCTCGTATGGCCCGCTGGGTGTACTGCACAGTTATTCGGATCGTCCATCCTC
CGGTCCGCGCACCAAGGCTGAAGAAGAAGAAGAACGAGAAGGAGGACAAGCGGCCGCGGACCGCGTTACGGC
CGAGCAGCTGCAGAGACTCAAGGCGGAGTTCCAGGCAAACCGCTACATCAGGAGCAGCGGCGGACAGCCCTGGC
CCAGGAACCTCAGCCTCAACGAGTCCAGATCAAGATCTGGTTCCAGAACAAAGCGGCCAAGATCAAGAAAGCCAC
AGGCATCAAGAACGGCCTGGCGCTGCACCTCATGGCCAGGAGCTGTACAACCACTCCACCACACGGTCCAGGA
CAAAGACGAGAGCGAGTAGCGGCCACAGGCCGGGGCGCGCCCGGCCCTCCCGGCACCGCCGCGCTCGTCTC
CCGGCCCCCTCGCTGGGGGAGAAAGCATCTGCTCCAAGGAGGAGGAGCGCAGGGAAAAAGAGCGAGAGAGACAGA
AAGAGAGCCTCAGAATGGACAATGACGTTGAAACGCAGCATTTTTTGAAAAGGGAGAAAAGACTCGGACAGGTGCTA
TCGAAAAATAAGATCCATTCTCTATTTCCAGTATAAAGGACGAAACTGCGAACTCCTTAAAGCTCTATCTAGCCA
AACCCTTACGACCTTGTATATATTTAATTTAGGTAAGGAAAACACATACGTGTAGCGATCTCTATTTGCTGGA
CATTTTTTATTAATCTCCTTATTTATTTATTTATTTATAAATTATTTATAAATTATTTATGGCCCTCCCCCA
CCGCCCTCGCTGCCCCCGGAGTTTCGTTTTCTGTGCTTTTTCTTTGATTTGAATGTATTGCTTCTCCGGTGCCCTCC
CGACCCGCATCGCCGCGCCCTGGTTTCTCTGGGACTTTTTCTTTGTGTGCGAGAGTGTGTTTTCTTTCTCGTGTCTGCC
CACCTCTTCTCCCCACCTCCCGGGTCCCTTCTGTCTGGTCTGTCTGTTCTGCCCCCTTTCTGTTTTCCGGAGACT
TGTGTAGAAAATACGACCCACAGACTGCGGAGACTGAACCGCCGCTACAAGCCAAAGATTTTATTATGTTTCAGAAA
CCTGTAGTCTGAAATAAA

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FIGURE 1360

MEEQQPEPKSQRDSALGGAAAATPGGLSLSLSPGASGSSGSGSDGDSVPVSPQPAPPSPPAAPCLPPLAHHPHLP
PHPPPPPPQHLLAAPAHQPQPAQLHRTTNFFIDNILRPDFGCKKEQPPPQLLVAAAARGGAGGGGRVERDRGQTA
AGRDPVHPLGTRAPGAASLLCAPDANCPPDGSQPAAAGAGASKAGNPAAAAAAAAAAVAAAAAAAAAKPSDTGG
GGSGGGAGSPGAQGTKYPEHGNPAILLMGSANGGPVVKTDSQQPLVWPAWVYCTRYSDRPSSGPRTKLLKKKKNE
KEDKREPTAFTAEQLQRLKAEFQANRYITEQRRQTLAQELSLNESQIKIWFQNKRAKIKKATGIKNGLALHLMAQ
GLYNHSTTTVQDKDESE

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FIGURE 1362

MSTIAAFYGGKSILITGATGFLGKVLMEKLFRTSPDLKVIYIILVRPKAGQALQQRVFQILDSKLFKVKVCPNV
HEKIRAIYADLNQNDFAISKEDMQELLSCCTNIIFHCAATVRFDDTLRHAVQLNVTATRQLLLLMASQMPKLEAFIH
ISTAYSNCNLKHIDEVIYPCPVEPKKIIDSLEWLDDAIIDEITPKLIRDWPNIYTYTKALGEMVVQQESRNLNIA
IIRPSIVGATWQEPFPGWVDNINGPNGIIATGKGFLRAIKATPMAVADVIPVDTVVNLMMLAVGWYTAVHRPKST
LVYHITSGNMNPCNWHKMGVQVLATFEKIPFERPFRRPNANFTSNSFTSQYWNAVSHRAPAIYDCYLRLTGRKP
RMTKLMNRLLRTVSMLEYFINRSWEWSTYNTEMLMSELSPEDQRVFNFDVRQLNWLEYIENYVLGVKKYLLKEDM
AGIPKAKQRLKRLRNIHYLFNTALFLIAWRLLIARSQMARNVWFFIVSFCYKFLSYFRASSTLKV

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FIGURE 1363

GCCCATTCAGTTGGAGAACGTAGTGAGTCTTTCAGTGGAGCCAGGGTCTGGTTTGTCGTGAGGAGCTCCGCGAT
GTCTCTCAACAGAGCGCCGTTTCCGCCAAAGGCTTTTCCAAGGGGTCGTCCCAGGGGCCCCGCTCCGTGTCCCGC
CCCGGCGCCACCCCGGCGCCCGCTCCTCCTCCTCCTGCTGTGGCTCCGGCAGGGGCTGCTGCGGCGACTCAGG
CTGCTGCGGCTCCAGCTCCACCAGTTGCTGCTGCTTCCCAAGGAGACGCCGTGACAGCGGAGTAGTGTTGCTG
CTGCTGCGGGGGCGGCAGCCAGAGGTCCCAGCGCTCCAACAACCGGAGCTCAGGATGCTGCTCCGGCTGCTGAGA
GGCCCGCAACCCCGAGCGCTGCGCTAGAGAAACCCGCCAGCCAGAGCGGGCCCGCCCGCTGCGGCTCCCACG
CGGGGCTGGGCCTCGGAGTTTGCCCCGTAAAGCGAATTGCACTTTGATGTTTCAGAAACCCACTTTGTTCTCAGCC
ACGCAAACTCCCTGACCCCGATGTGATTTTTCTCCCCGGGGATTGAGAGCCATGCGTGGGACACTGGACCCTA
CTGTCTACACGGGCTTGACACAGCAGGTGCTCAGCAAATGCCTATTGATTGATTGTCTTTGAAGATGTCATA
ATAAAGCTTCTACCTCCTGAAAAA

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FIGURE 1364

MSSQQSAVSAKGFSGSSQGPAPCPAPAPTPAPASSSSCCGSGRGCCGDSGCCGSSSTSCCCFPRRRRRQRSSGC
CCCGGGSQRSQRSNNRSGCCSGC

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FIGURE 1365

GAAAAATCCTTGTGGTTAACAGCAGAGGCTTCAGAGTGTAACTGTACTCGGGCCTAGAAAATTATTTAAATCGC
GACTGATACGTCTCAAGGTGAACCTCGTCCATCCTAAGGCACTCCCACTTATAGTAGGAGCTCAGCTGATCCACGC
GGACAAAGTTAGGTGAGAAGGTAGAAGATAGCACCATGCCGATTTCGTGCAACTGTGAATTCTACCCGGGAACTCC
TCCCAAAAGCAAGCTTGCTGAAGGGGAGGAAGAAAAGCCAGAACCAGACATAAGTTCAGAGGAATCTGTCTCCAC
TGTAAGAAGAAACAAGAGAATGAAACTCCACCTGCTACTTCGAGTGAGGCAGAGCAGCCAAAGGGGGAACCTGAGAA
TGAAGAGAAGGAAGAAAATAAGTCTTCTGAGGAAACCAAAAAGGATGAGAAAGATCAGTCTAAAGAAAAGGAGAA
GAAAGTGAAAAAAACAATTCCCTTCTGGGCTACCCTTTCTGCCAGCCAGCTAGCCAGGGCCCAGAAACAAACACC
GATGGCTTCTTCCCCACGTCCCAAGATGGATGCAATCTTAAGTGGCCATTAAGGCATGCTTCCAGAAGAGTGG
TGCATCAGTGGTTGCTATTTCGAAAATACATCATCCATAAGTATCCTTCTCTGGAGCTGGAGAGAAGGGTTATCT
CCTTAAACAAGCACTGAAAAGAGAATTAAATAGAGGAGTCATCAAACAGGTTAAAGGAAAAGGTGCTTCTTGGAA
GTTTGTGTGGTTTCAGAAATCAAGAAAAACACCTCAGAAATCCAGAAAACAGAAAGAATAGGAGCTCTGCAGT
GGATCCAGAACCACAAGTAAAATTGGAGGATGGTCTCCCACTGGCCTTTACTCGCCTTTGTGAACCTAAAGAAGC
TTCTACAGTCTCATCAGGAAATATGTGTCTCAGTATTATCCTAAGCTTAGAGTGGACATCAGGCCTCAGCTGTT
GAAGAACGCTCTGCAGAGAGCAGTAGAGAGGGGCCAGTTAGAACAGATAACTGGCAAAGGTGCTTCGGGGACATT
CCAGCTGAAGAAATCAGGGGAGAAACCCCTGCTTGGTGGAAGCCTGATGGAATATGCAATCTTGTCTGCCATTGC
TGCCATGAATGAGCCGAAGACCTGCTCTACCACTGCTCTGAAGAAGTATGTCCTAGAGAATCACCCAGGAACCAA
TTCTAACTATCAAATGCATTTGCTGAAAAAAACCCTGCAGAAATGCGAAAAGAATGGGTGGATGGAACAGATCTC
TGGGAAAGGGTTCAGTGGCACCTTCCAGCTCTGTTTTCCCTATTATCCCAGCCCAGGAGTTCTGTTTTCCGAAGAA
AGAGCCAGATGATTCTAGAGATGAGGATGAAGATGAAGATGAGTCATCAGAAGAAGACTCTGAGGATGAAGAGCC
GCCACCTAAGAGAAGGTTCAGAGAAGAAAACCCAGCCAAGTCCCCAGGGAAGGCCGCATCTGTGAAGCAGAGAGG
GTCCAAACCTGCACCTAAAGTCTCAGCTGCCCAGCGGGGAAAGCTAGGCCCTTGCCTAAGAAAGCACCTCCTAA
GGCCAAAACGCCTGCCAAGAAGACCAGACCCTCATCCACAGTCATCAAGAAACCTAGTGGTGGCTCCTCAAAGAA
GCCTGCAACCAGTGCAAGAAAGGAAGTAAAATTGCCGGGCAAGGGCAAATCCACCATGAAGAAGTCTTTCAGAGT
GAAAAAGTAAATTTTATAGGAAAAAAGGGTATGATGATGAAATTCAAATCTTATTTTCTAAGCACTTTTGATAT
CAAGCAAGTGGCTTCCTTTTTGAGATATTAAAC

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FIGURE 1366

MATDTSQGELVHPKALPLIVGAQLIHADKLGEKVEDSTMPIRRVTNSTRETPPKSKLAEGEEKPEPDISSEESV
STVEEQENETPPATSSEAEQPKGEPENEEKEENKSSEETKKDEKQSKKEKKVKKTIPTSWATLSASQLARAQKQ
TPMASSPRPKMDAILTEAIKACFQKSGASVVAIRKYIIHKYPSLELERRGYLLKQALKRELNRGVIKQVKGKGAS
WKFCCGSEIKKKHLRNPENRKNRSSAVDPEPQVKLEDGLPLAFTRLCEPKEASYSLIRKYVSQYYPKLRVDIRPQ
LLKNALQRAVERGQLEQITGKGASGTFQLKKSGEKPLLGGSLMEYAILSATAAMNEPKTCSTTALKKYVLENHPG
TNSNYQMHLKKTLQKCEKNGWMEQISGKGFSGTFQLCFPYYPSPGVLFPPKKEPDDSRDEDEDEDESSEEDSEDE
EPPPKRRLQKKTPAKSPGKAASVKQRGSKPAPKVSAAQRGKARPLPKKAPPKAKTPAKKTRPSSTVIKKPSGGSS
KKPAT SARKEVKLPKGKSTMKKSFRVKK

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FIGURE 1367A

GAAGGCGTCCCGGCATCGGCCAAGATTCTACATTGCTCATCTGGGCATCTGAGCCTCCTTCGAAGTTTCCTGTCA
CAACTGTCCTCTTGACAGCATGGATGAGGAGGAAGACAATCTGTCTCTGCTGACCGCACTGCTGGAAGAAAATGA
GTCAGCCTTGGATTGTAATTCAGAAGAAAATAACTTCTTGACGCGGAAAATGGCGAGCCCGACGCATTTGATGA
GCTCTTTGATGCCGACGGCGACGGTGAATCTTATACAGAAGAGGCTGATGATGGAGAAACAGGAGAGACAAGAGA
CGAAAAGGAAAATCTGGCCACTCTCTTTGGAGATATGGAGGACTTAACAGATGAAGAAGAAGTTCCCGCATCACA
GTCAACTGAAAATAGGGTCTCTCCCTGCTCCTGCCCCAGGCGAGAGAAAACGAATGAAGAGTTGCAAGAGGAATT
AAGGAATTTGCAAGAGCAAATGAAGGCCTTACAAGAGCAGCTAAAAGTAACAACAATTAAACAGACAGCAAGCCC
AGCCCGTCTGCAAAAATCCCTGAGAAGTCTCCCCGCCACCTCTTAAGGAGAGGAGAGTTTACAGAGAATTCAGGA
GTCAACATGCTTTTCTGCGGAGCTTGATGTCCCTGCGCTACCAAGAACCAAGAGGGTGGCTCGAACACCAAAGCC
TTCACCTCCAGATCCCAAAAGCTCATCTTCAAGGATGACAAGTGCACCCCTCCAACCCCTACAGACGATTTCTCG
GAACAAACCTAGTGGGATAACTAGAGGTCAAATTGTGGGGACCCAGGAAGTTCTGGGGAAACGACTCAACCCAT
CTGTGTGGAAGCCTTCTCTGGTCTGCGGCTCAGGCGGCTCGAGTATCCTCCACAGAAATGAACAAGAAAATGAC
CGGCCGAAAACCTGATCAGACTGTCTCAGATCAAGGAAAAGATGGCCAGAGAGAAGCTGGAAGAAATAGATTGGGT
GACATTTGGGGTTATATTGAAGAAGGTTACGCCACAGAGTGTGAATAGTGGAAAACCTTCAGCATATGGAACT
GAATGATCTTCGTGACCTGACACAATGTGTGTCCTTGTCTTATTGGAGAAGTTCACAAAGCGCTCTGGAAGAC
GGAGCAGGGGACTGTCTGAGGGATCCTCAATGCCAACCCCATGAAGCCCAAGGATGGTTTACAGAGGAGGTGTGTTT
ATCTATCGATCATCTCAGAAGGTCTTAATTATGGGTGAAGCTCTTGACCTGGGAACCTGTAAAGCCAAGAAGAA
GAATGGAGAGCCGTGCACGCAGACTGTGAATTTGCGTGACTGTGAGTACTGTGAGTACCATGTCCAGGCTCAGTA
CAAGAAGCTCAGTGCAAAGCGTGCAGTCTGAGTCCACCTTCTCTGGAGGACGAATTCCAAAGAAGTTTGGCCG
CAGAGGCACCAGCCTCAAAGAACGGCTGTGCCAAGATGGCTTTTACTACGGAGGGGTTTCTTCTGCCTCGTATGC
AGCTTCAATTGCAGCAGCTGTGGCTCCTAAGAAGAAGATTCAAACCACTCTGAGTAATCTGGTTGTAAAGGGCAC
AACTTGATCATCCAGGAAACACGGCAAAAACCTCGGAATACCCAGAGAGCCTGTCTTGCTCTGAGGAGTTCAA
GGAAGTGAAGACCTGCCGACGTGTGGAGCCAGGAACCTTAAACAACATTTAGCCAAAGCCTCAGCTTCAGGGAT
TATGGGGAGCCCAAACAGCCATCAAGTCCATCTCGGCCTCAGCACTCTTGAAGCAACAGAAGCAGCGGATGTT
GGAGATGAGGAGAAGGAAATCAGAAGAAATACAGAAGCGATTCTGACAGAGCTCAAGTGAAGTTGAGAGCCCAGC
TGTGCCATCTTCATCAAGACAGCCCCCTGCTCAGCCTCCACGGACAGGATCCGAGTTCCCCAGGCTGGAGGGAGC
CCCGGCCACAATGACGCCCAAGCTGGGGCGAGGTGTCTTGGAAGGAGATGATGTTCTCTTTTATGATGAGTCACC
ACCACCAAGACCAAACTGAGTGCTTTAGCAGAAGCCAAAAGTTAGCTGCTATCACCAATTAAGGGCAAAAGG
CCAGGTTCTTACAAAAACAAACCCAAACAGCATTAAAGAAGAAACAAAAGGACCCTCAGGACATCCTGGAGGTGAA
GGAACGTGTAGAAAAAAACACCATGTTTTCTTCTCAAGCTGAGGATGAATTGGAGCCTGCCAGGAAAAAAAGGAG
AGAACAACCTGCCTATCTGGAATCTGAGGAATTTAGAAAATCCTAAAAGCAAAATCAAAACACACAGGCATCCT
GAAAGAGGCCGAGGCTGAGATGCAGGAGCGCTACTTTGAGCCACTGGTGAAAAAAGAACAAATGGAAGAAAAGAT
GAGAAACATCAGAGAAGTGAAGTGCCGTGTCTGATGCAAGACGTGCGCCTATACCCACTTCAAGCTGCTGGA
GACCTGCGTCAGTGAGCAGCATGAATACCACTGGCATGATGGTGTGAAGAGGTTTTTCAAATGTCCCTGTGGAAA
CAGAAGCATCTCCTTGGACAGACTCCCGAACAAGCACTGCAGTAACTGTGGCCTCTACAAATGGGAACGGGACGG
AATGCTAAAGGTATGCCATTTGCGTACTAATTTTTTGACTCCTTTTGTAGTGACCCATGCTAATAATGTGGAACCATC
TCCTATTAAAATATTTTCAATTTTCTAGGAAAAGACTGGTCCAAAGATAGGAGGAGAAAACCTCTGTTACCAAGAGG
AGAAGAACATGCTAAATTTCTGAACAGCCTTAAATAACCCGAACTTCAGACATTTTCCACAGACTTCTTGGCCT
CCTGTGACTCTGGAAGCAAAGGATTGGCTGTGTATTGTCCATTGATTCTGATTGACGCCGTCAAAAACAAATG
CTTGTTAAGCCATAAGCTTTGCCTGCTTACTTTCTGCCATTGGGTTGGTTTGATAACCACATTTAACATTGACAT
TTAAGTGGAAAACCAAGTTATCATTGTCTTTTCTAAGCTCAGTGTGGATGATTGCATTACTTCAATTCAGTGAAGT
TTTTGCCCAAAATTTGGAAGGTAAACAGAGAGCTATGTTTCTGTATCTTTTGGTTATAGAGTGTTCACTTCTTTA
TCATAACAAAATTTAGTGTATATACGAACACCCAGAGGCAAAAGAAATTTGGCTTAATTTCTACTCCAGGTAAGT
AGCTTAACTTCTGGGCTTCAAGTTTCTCATCTGTAAAATCAGGAAGATTGGACTAAGTGATCCTGAAATGTATTT
TTTAGCACTGGATTTCTACAAATAATAAACTTTCCCATCTAGATAATGATGATCACATAGTCTTGATGTACGGA
CATTAAGGAGCCAGATTTCTTCAATTCATTCTGTTAICTCTGTTTTACTCTTTGAAATTGATCAAGCCACTGAATC
ACTTTGCATTTCAAGTTTATATATAGAGAGAGAAAGAAGGCTGTCTGCTCTTACATTATTGTGGAGCCCTGTGATA
GAAATATGTAAAATCTCATATTATTTTTTTTTTAAATTTTTTTTATTTTTTATGACAGGGTCTCACTATGTCACCT

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FIGURE 1367B

GGCTGGAGTGCAGTAGTGCGATCGCGGCACACTGCAGCCTTGGCTTCCCTGGGCTCAAGCAGTCCTCCCACCTCA
GTCTCCCAAATAGCTAGGACTACAGGCGTGCGTGACCAAGCCCAGCTAATTTTTGCATTTTTTTGTAGAGATGGGG
TTTTGCCATGTTGCTCAGGCTGGTCTCAAACCTCCTGAGCACTAGCAATCCACCCACCTCTGTTTCCAAAAA
AAAAAATGAAAGGTCAACCCCTATGCAAATTACCACAGCAAAGGTTTCATTTCAGGAGATTCTTCCATCTGGGCA
ACCTGGTTTTCCAAATATCATTGACCTAAGTGAATGTTGATACTAGCTAAAGATTGGGTAAATTGGTTGAATTA
TTGTATTGAAGCTTGAGCTGTAGCTAAAAGTAATTTAGGTTTCCCCTAAGATGTTATTATGTTAGGGACATAACA
CTTTTGGGAGGTTGTTGTGGGAGATGGTTGATTTAGGTTTTCAAAGCTAGAAATAAAATTTACATGCCTTAGAT
TTCATAAAATTCTGCTCTAATTGGGTGGAAGGTGCTGTATCTAAGTTGTGTTCCCTCCTAAGGTTATGTCCTAATA
ACTATTCTTTTAGGAGTATACTTCTACTTTATAGAAGGTTGCTTTTCTTTTAAATTTTTCTAACAAGAAAAGA
ATAAGTATTTATTAATAAGAACCAGAAAGCACTTGAACTGATGTTTTTAATGGCTCATTAGGGTAGATTTAT
TTATCTCATTAACTTAAACAGCTATGTGTATGAAATAGGTCACAACAGAACTTGAACACCAGGTTGGTGTCTGA
GCAATCCCTTTCTTATGGGAAAAACAATGTTCTTGTGTTGAACAGAGGGTATCATTGCAGTCAGTATTCACGTGTA
TATTGTTATATAAGTTGTATAATATGCTTGTAAGGCTGAGGGTGAGCTGTATCTGGATGCCTTTTTACAATTTG
ATTTTAACTTTTAAATAAAATTTAAACATAAAAAAAAAAAAAA

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FIGURE 1368

MDEEEDNLSLLTALLEENESALDCNSEENNFLTRENGEPDAFDELFDADGDGESYTEEADDGETGETRDEKENLA
TLFGDMEDLTDEEEVPASQSTENRVLPAPAPRREKTNEELQEELRNLQEQMKALQEQLKVTTIKQTASPARLQKS
PEKSPRPPLKERRVQRIQESTCFSAELDVPALPRTKRVARTPKPSPPDPKSSSSSRMTSAPSQPLQTI SRNKPSGI
TRGQIVGTPGSSGETTQPICVEAFSGLRLRRPRVSSTEMNKKMTGRKLIRLSQIKEKMAREKLEEIDWVTFGVIL
KKVTPQSVNSGKTFSIWKLNDLRDLTQCVSLFLFGEVHKALWKTEQGTVVGILNANPMKPKDGSSEEVCLSIDHPQ
KVLIMGEALDLGTCKAKKKNGEPCQTQTVNLRDCEYCYHVQAQYKKLSAKRADLQSTFSGGRI PKKFARRGTSLK
ERLCQDGFYYGGVSSASYAASIAAAVAPKKKIQTTLNLVVGKTNLIIQETRQKLGIPQKSLSCSEEFKELMDLP
TCGARNLKQHLAKASASGIMGSPKPAIKSISASALLKQKQRMLEMRRRKSEEIQKRFLQSSSEVESPAVPSSSR
QPPAQPPRTGSEFPRLGAPATMTPKLGRGVLEGDDVLFYDESPPPRPKLSALAEAKKLAITKLRAKGQVLTKT
NPNSIKKKQKDPQDILEVKERVEKNTMFSSQAEDELEPARKKRREQLAYLESEEFQKILKAKSKHTGILKEAEAE
MQERYFEPLVKKEQMEEKMRNIREVKCRVVTCKTCAYTHFKLLETQVSEQHEYHWHDGVKRFFKPCGNGRSISLD
RLPNKHCSNCGLYKWERDGM LKVCHLRTNF

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FIGURE 1369A

CTCCAGTCCGCATGCTCAGTAGCTGCTGCCGGCCGGGCTGCGGGGCGGCGTCCGCTGCGCGCCTACGGGCTGCGG
TGGCGGGCCCGCGGCACCCGGCAGGGCCCGCCAGTCCCCGCTTCCCTGCTCCAGAGCCGCGCCTGGGCGGGG
CAGGGCGGGCCCGGGGCTCCTCCATGCTGCCAGCCGCCGGGCTGCGGAGCCGACCAAGTGGCTCCTGCGATGGCG
GCGGAAGAGGAGGCTGCGGCGGGAGGTAAAGTGTGAGAGAGGAGAACCAGTGCATTGCTCCTGTGGTTTTCCAGC
CGCGTGAGTCCAGGGACAAGACCAACAGCTATGGGGTCTTTAGCTCACACATGACAGAGTTTCCACGAAAACGC
AAAGGAAGTGATTAGACCCATCCCAAGTGAAGATGGTGAACACCAAGTTAAAATGAAGGCCCTTCAGAGAAGCT
CATAGCCAAACTGAAAAGCGGAGGAGAGATAAAATGAATAACCTGATTGAAGAAGTGTCTGCAATGATCCCTCAG
TGCAACCCCATGGCGCGTAAACTGGACAACTTACAGTTTTAAGAATGGCTGTTCAACACTTGAGATCTTTAAAA
GGCTTGACAAATTCTTATGTGGGAAGTAATTATAGACCATCATTTCTTCAGGATAATGAGCTCAGACATTTAATC
CTTAAGACTGCAGAAGGCTTCTTATTTGTGGTTGGATGTGAAAGAGGAAAAATTCTCTTCGTTTCTAAGTCAGTC
TCCAAAATACTTAATTATGATCAGGCTAGTTTGACTGGACAAAGCTTATTTGACTTCTTACATCCAAAAGATGTT
GCCAAAGTAAAGGAACAACTTTCTTCTTTTGATATTTACCAAGAGAAAAAGCTAATAGATGCCAAAACCTGGTTTG
CAAGTTCACAGTAATCTCCACGCTGGAAGGACACGTGTGATTCTGGCTCAAGACGATCTTTTTTCTGTCGGATA
AAGAGTTGTAATACTCTGTCAAAGAAGAGCATGGATGCTTACCCAACTCAAAGAAGAAAGAGCACAGAAAATTC
TATACTATCCATTGCACTGGTTACTTGAGAAGCTGGCCTCCAAATATTGTTGGAATGGAAGAAGAAAGGAACAGT
AAGAAAGACAACAGTAATTTTACCTGCCTTGTGGCCATTGGAAGATTACAGCCATATATTGTTCCACAGAACAGT
GGAGAGATTAATGTGAAACCACTGAATTTATAACCCGGTTTGCAAGTGAATGGAAAAATTGTCATGTAGATCAA
AGGGCAACAGCGATTTTAGGATATCTGCCTCAGGAACCTTTGGGAACCTTCTGTTATGAATATTTTCATCAAGAT
GACCACAATAATTTGACTGACAAGCACAAAGCAGTTCTACAGAGTAAGGAGAAAAATACTTACAGATTCCTACAAA
TTCAGAGCAAAAGATGGCTCTTTTGTAACCTTTAAAAAGCCAATGGTTTAGTTTCACAAATCCTTGGACAAAAGAA
CTGGAATATATTGTATCTGTCAACACTTTAGTTTTGGGACATAGTGAGCCTGGAGAAGCATCATTTTTACCTTGT
AGCTCTCAATCATCAGAAGAATCCTCTAGACAGTCCTGTATGAGTGTACCTGGAATGTCTACTGGAACAGTACTT
GGTGCTGGTAGTATTGGAACAGATATTGCAAATGAAATCTGGATTTACAGAGGTACAGTCTTCTTCATACCTT
GATGATTCGAGTCCAACAGGTTTAAATGAAAGATACTCATACTGTAAACTGCAGGAGTATGTCAAATAAGGAGTTG
TTTCCACCAAGTCCTTCTGAAATGGGGGAGCTAGAGGCTACCAGGCAAAACCAGAGTACTGTTGCTGTCCACAGC
CATGAGCCACTCCTCAGTGATGGTGCACAGTTGGATTTGATGCCCTATGTGACAATGATGACACAGCCATGGCT
GCATTTATGAATTACTTAGAAGCAGAGGGGGGCTGGGAGACCCTGGGGACTTCAGTGACATCCAGTGGACCCTC
TAGCCTTTGATTTTTAACTCCAAAAATGAGAAACATTTTAAAGCATTATTTACGAAAAAACTGTCTCAACTATTC
TTAAGTACTGTATTGATATTGTTTGTATCTTTTATTAATGTTCTACCACTTTTATAGATTTGCATCTTCTGTG
ACAGGGATGTGGGGAAATACGTTTTCTCCCAAGAGAACCAAGTTTATTATAGACTCCTTTATTCAGTGAAATGG
CTTATAATCCACTAGTTGCCATATTTTGTCTAAATATTTCTAACCAAGAATACTACTTACATATTGTTTTGGCT
TTGTTTTATTTTGATGCAGTTTTTTTTAGTTGAGGTAATGTAATATATTGATGTTTTCTTTGTGCTAAGATT
GATTTATAATAGTAGGTTTGTATAATTTGGAACATTTTCCATGCCTTGCGAATTTCTTAATTGAGGATAGGGCT
TACACACTTTAAGAAAACAGTGAGTACTTGAACATTTAAAGGGACAGTGCAATTTATAGTCATAATCACATTGAA
TACTGTATTTGATCTTTGGAGACTTAGGCAAGCACAGAGCTGGGATATTTATGCTCAGTTGAGCACTTTAAGATG
AATTTTAAGTGAGATGATTTCTTGCTTAAACTCAGAAAGTCAAAGAGTTTCAGCTTTCCTTACAGAAAAGGAA
GGATCTTGGGCCCTAGATCTTGGGGATTAACTCTGCATATAAGATTTACTCTTAATAGGCCAGACGTGGTGCTC
ACGCTGTAAATCCCAGTACTTTGGGAGGCTGAGACGGGCAGATCACTTGAGGTCAGGAGTTCAAGACCAGCCTGG
CCAATATGGTGAAACCCCGTTTCTACTAAAAATACAAAAAAATACCCAGGCACTCACTCTTGAGGTAACCTAAC
CACTCCCACGATAATGACAGTCCATTCATGAGCGCAAAGGCCTCATGACCTAATGGCACACACCTGTAATCCCA
ACTGCTTGGGAGGCTGAGGCGAGAGGATTGCTTGAACCTGGGAGGCAGAGGTTGCAGTGAGCCGAGATCGCACCA
CTGCACTCCAGTCTGGGCAACAGAGTGAGACTTCATCTCAAAAAAAGTAAAAAAAAGATTTAATATAATCACTG
AAGATCTCTATTATAGATAGATTAGGTTTTTGACATTGGAAACATACTTAGGGATAGATTTGCTCTAAAGGAAAA
AAGTAGGCCCCGGGCAGATTAATGTCTTGTGTAAAGTCACACATTAAATTCAGTCACACATTAAATTCATAGAGT
TTTAAATGTTTAAATGTATATAAACAGTTTCTTTATACACATTTGGGAAAACATTGGTCTCACAGATTAAATGAT
TACTAAGTACCCAGGAAGTGTGTAGCTTTCTAAGTAATTAGGCAATTACAGTTATTGCCTGTAACCAAAGG
TAATAAAACAAAATGACAAGTACATGTTTAAATATTAGAGCAATGAGAAATAATTTAAAAACCAATTTTCTAGT
TATAATTTAAATTTGGAGAGCATTTTTAACAGTAATTAATCCAGAGGTGGCTCAAATTGAGTATAAGAATTAAG

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FIGURE 1369B

ATTATTTAAAATACTGCATGTCTACCTTCTCGGGGATCATACTTTATAACACTTTCTGCTTCAGTAGCTCTTCAT
AGCTTGCCAAAGTATGCTCCCATATTTTCTCTCTCGTGCCTCGCAAATGAAAGTCAGATAGGCTGGGAACATCATGG
GGCAGCCCTCAGACTTCAATGTGGGCTTCAAATCCAGTTTCTGTTCTATATGGTGTACATCTTTCCAGAAAAT
TTCCCTCAGAGCCCTCGCCAAAACAAAGCATTATTTTGACCCTGCATGCTATTTCTTTAGCTGTAGGTGATAGA
TTAGAACTTCTGTCAGACATGTTAATGACAAACATACCAACAGACAATAACCAAAGCAAATGTTTCCTTCAAGTG
TGAAATGTGCAGGGGCTCGTGGGCAAGGATGTATTGGCACACTGTCTCTTGAAGTATAGTGTCCAGCAATGT
TGGAGGTTGGCACCATTCTGTTCCGACACTTGAGGACCTGAGAGACATCAGGTTTAGAATGAGCCAAAGAAATC
CTACAAGATGGGGAGAATTGGTGTGCAGCAGCCTAAGTGTATAGTTAAGTCTAAAGAAGTATGAAAGATCCCTT
GTGTTCTCTAAATTGAGCAGAGGGGCTGCCTACCAATATCACTTTTTAGGGGACTGAACCATTGCAGGTTAGAC
TTGGCTTCCAAAGAGTCTGCCTAAGCCAGGGGTGGCAGGGTAGGCCATCATAGCTGGATGGCCTCAAAGCAGAT
GGGGGCAGACTTGCCTCGTGATGCCAGGATTTGAGAGGCAGAGTTTCTAGAGGGAGACCAGTGTGCCTCTCAC
AGTGGCAGTTTTTCTCTTTGCAAGAGGAGGGGCTGTTCAATTCCATAGACCAGTGGGCAGATAGCCAGTTGAAT
ACTCTGTGCATGGTTTGATCCTTTATTAGTTCGCTCTAATATTTTTCTGTAGATCCTTTTGTCTGGACTCAAAA
TCTAATCCATGCATTGTATGATACCGTAGCTCTCCTAAGGTTTGTGTTTCTTCAAAATGTTTTAGTTTTCTTCA
ACTAAATTTGATTTTTTGCTGTTAGAAGTGACATATTTTTATGGTATACACTATGTTCTTTTTTCTACTGCGAGT
CAATTTTTTGAATTTTCTGTGAGAAAGAATATATCTACAAATTGCACGAAAGTATCATAAAAACAGTACTCTAGAG
CAGCGCTGTCCAATAGAAATATAATCTGAGCCACATGTATAATTTTATTTTCTTCTAGCCACATTAAAGAAGTAA
AAAGATACAAGTAGAACTAATTTAATGTTTTAATTCAGTATATCCAAAATATCATTGAAACATGTAATTAATAT
AAAATTATTAATGTGATATTTTACATTCTTTTGGTAATACTAGTCTTCAAAATCTGGTATGTATCTTACATTGAT
AGCACATCTCACTTTGTACTAGCCACATTGCAAGTGCTCAGTAGCCACATGTGGCTAGTGGCTACTGCACTGGAC
AGCACAGTTCAGGTTCCACCCTAACACCCAAGTCTGTGGATTAGAATCCCAGAATCAGAGCTGGAAGTAAACA
TAGAGATCAAACCTCCTTTTTAAAAATGAGGACGCTGAGGCACAGAGTTTAAATGGCTTGCATGAGGTCATACAGC
TAAATTCAGCCTCAACAGGGTCTTCTGATTCCAGGCACCTCTTCCCACTCCACTACATTACTGTAGTGGTAATTCT
TAGGGTTAAAAAAGTGTAGAGTAGGCCGGGCGCAGTGGCTCATGCCTGTAATCCCAGCACTTTGGGAGGCCGAA
GTGGGCGGATCACGAGGTGAGGATCGAGACCATCTGGCCAACATGGTGAAACCCCGTCTCTACTGAAAATAC
AAAGCAAAATTAGCCAGGTGTGGTGGCGGGCGCCTGTGGTCCCAGCTGCTCTGGAGGCTGAGGCAGAATGGCGTG
AACCAGGAGGCAGAGATGGCAGTGAGCCAAGATCGCGCCACTGCACCCAGCCTGGGCGACAGAGCGAGACTCC
ATCTCAAAAAAAAAAAAAAAAAAAAAAGAAAAGAAAAGAAAGTCTAGAGAACATTATATTAAGTGGTTATTATT
GAAGTAGACCAAAGTTTATACCATAAGGATATTTTCTTAAATACCATGTTTGAAGAACAATTATTTATTGATC
CTTGAATCTGTAAGATCAAATAACAAGTCTCTATCCATGTTACCAAATTTAACCTTTTGAAAATAATAAACTTTA
AAATATCAGATGTGTTATTACAGGATGATACTTGAATCAAGTGAAATGAGTTATATGGTCATCACTAAATTTAG
AAATCTATTGTGAAACAAAGACAAACAGGAAAGTACAGAATAGAGACTTTTAGTAAATAAATGGAATTTAAAAGA
AAGTGTATTATTACAGTGTACGACAGAAAAGGATGTCTTTGTTGTCATAGTCTTTGAGGGATCTCCGTAAAATC
TGGGGCACAGGTACAAGAAATAGCCAATATTTAGTTCCCAGACCATGTTTAGTAGTGTCCAGTTTCAGATCATGC
TGCCAAGAGGTATCTCCCCCTCAGGTGGGTCACTAGGCCCTGGAATTGGAGACTCATACTTGCCCAGCACAA
TGTTACGGGCAGACAGGCCGACATCTATGATTAGCTAGAAGCCATAAAGAAAAGCTGCTAAGTGGCCACTAGGTG
CCACTTTTCTGTTTTTGTAAATGCTTTTATTAGCAGATCTTTTTTTTCCAAGCTCCATGGGGCCTATGAGAGGCAT
TTATGATTTTTGTGCCTACAATAAGTCAGCCTGTCTGGTGTGAGTTGTTTTATGAGAAATGCTTTCCAAGGGAGG
TCTAGGAAGATCCTGACACATAAGAACTTTGGCTTAGAGAGCTTTCCAGGTGTAGTGCCAATAAAAACCTGACCTG
GAAAGAAAACCTGCCCAGCACGGAACATGCTTTCTGAACTCACTTGAGAGTGTATGGTGTATGTCACCTTCTCATA
TATTTCTGAGTTTAGATTGTCTTTTATACAATTTTATAGCTCTTTTCCAGTTCACTTGTGCTCGTCTGTATATTG
GTATTTTTTAATTTTTGTGGTAAATAATGAAAAGAGTGAAATTATATTTTATAATTACTCATTGTAGTTTTTTT
TTTTAATTTAATAAACTTCCTCCAAAAGTGCTCCCTTAAAA

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FIGURE 1370

MAAEEEEAAAGGKVLREENQCIAPVVSSRVSPGTRPTAMGSFSSHMTEFPRKRKGSDSDPSQVEDGEHQVKMKA
EAHSQTEKRRRDKMNNLIEELSAMIPQCNPMARKLDKLTVLRLMAVQHLSLKGLTNSYVGSNYRPSFLQDNELRH
LILKTAEGFLFVVGCEGKILFVSKSVSKILNYDQASLTGQSLDFDLHPKDVAKVKEQLSSFDISPREDLIDAKT
GLQVHSNLHAGRTRVYSGSRRSFFCRIKSKISVKEEHGCLPNSKKKEHRKFYTIHCTGYLRSWPPNIVGMEEER
NSKKDNSNFTCLVAIGRLQPYIVPQNSGEINVKPTEFITRFAVNGKFVYVDQRATAILGYLPQELLGTSCYEYFH
QDDHNNLTDKHKAVLQSKEKILTDSYKFRADGSGFVTLKSQWFSFTNPWTKELEYIVSVNTLVLGHSEPGEASFL
PCSSQSSEESSRQSCMSVPGMSTGTVLGAGSIGTDIANEILDQLRLQSSSYLDDSSPTGLMKDTHTVNCRSMSNK
ELFPPSPSEMGELEATRQNSTVAVHSHEPLLSDGAQLDFDALCDNDDTAMAAFMNYLEAEGGLGDPGDFSDIQW
TL

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FIGURE 1371

AGAGGTTCTCAGCCTCATGACTCCTAAACTCCTGGTACTTGAGCACCGATCTGCTTCGGAGAACCTGATTCTGAG
ACTCCAGCAGGATGTCTTATCAACAGTAGCAATGTAAGCAGCCCTGCCAGCCACCTCCTGTGTGCCGCCTGCCAA
AGCGTCCAGAGCCATGTCCACCCCTGAAGTGCCCTGAGCCCTGCCCCACCACCAAAGTGTCACAGCCCTGCCCCAC
CTCAGCAGTGCCAGCAGAAATATCCTCTGGTGACACCTTCCCCACCCTGCCAGCCAAAGTGTCACCCAAAGAGCA
AGTAACAGCTTCGGAATTCATCAGGACCACGAAAGGATAGGGATAATTGGCTCACCTCGTTCCACAGCTCCACCT
GCATCTTCTCATCAAAGCCATCCAGGGATACACAGGGAGCTTCTTTCCCCTTAGCCTGTGATCTGCCCATGATGA
TCCCCGACAGCAAAATGTTTCCTTTCTGAGGCTGCCATGCTGCCACTGTCCAGGTGGAGACTGAGCAAAGGAAGT
CCTCAGCTGTACCGGCCTTTTCTGAGGCTTCTCTTTGGGTGCCATCAAAGAATTATTTTGATGTCTTCTGTCTCTGT
CTGTCACCTGGCATGAGCTTCTACTATCTGTGCAATTGTCACCTTTCTTTCACTCCCTGAATAAAGTAGCTATGC
CTA

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FIGURE 1372

MSYQQXQCKQPCQPPVCRLPKRPEPCPFLLKCEPCPPPKCPQPCPPQQCQQKYPLVTPSPPCQPKCPPKSK

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FIGURE 1373

ATGGTCCGAGGGGGGCGGGGCTGACGTCGCGCTGGGAATGCCCTGGCCGAGACACTGAGGCAGGGTAGAGAGCGC
TTGCGGGCGCCGGGCGGAGCTGCTGCGGATCAGGACCCGAGCCGATTCCCGATCCCGACCCAGATCCTAACCCGC
GCCCCGCCCCGCGCCGCCGCCATGTACGACGAGAGCGCGGCTGGAGCTTGTCTTCGCGGGGCTGCGGGCTTCC
TGGGCTTCTACACGTCGCGGGCGACCCGCTGCCTGAGCGAGCACGCCCCGCACCTCCTCCGCGACGCGCGCATGT
TGTTCCGGCGCTTCGGCCGGGGCGTTGCACTGCGTCGGCGTCTCTCCGGTATCCCGCTGGAGCAGACTCTGCAGG
TCCTCTCAGATCTTGTGCGGAAGGCCAGGAGTCGGAACATTGGCATCTTCCATCCATCCTTCAACTTAAGCAAGT
TCCTCCGACAGGGTCTCTGCAATGCCTCCCGGCCAATGTCCACCAGCTCATCTCCGGCAAATAGGCATCTCTC
TTACCAGAGTGTCTGATGGGGAACAGTTCTGGTGTCTGACTTTCGGTCCAAAGACGAAGTCGTGGATGCCTTGG
TATGTTCTGCTTCAATCCCTTCTACAGTGGCCTTATCCCTCCTTCTTCAGAGGCGTGCATATGTGGATGGAG
GAGTGAGTGACAACGTACCTTTCATTGATGCCAAAACAACCATCACCGTGTCCCCCTTCTATGGGGAGTACGACA
TCTGCCCTAAAGTCAAGTCCACGAACCTTCTTTCATGTGGACATCACCAAGCTCAGTCTACGCCTCTGCACAGGGA
ACCTCTACCTTCTCTCGAGAGCTTTTGTCCCCCGGATCTCAAGGTGCTGGGAGAGATATGCCTTCGAGGATATT
TGGATGCATTACAGTTCTTGGGAAGAGAAGGGCATCTGCAACAGGCCCCAGCCAGGCCTGAAGTCATCTCAGAAG
GGATGGATCCTGAGGTGCGCATGCCAGCTGGGCAAACATGAGTCTGGATTCTTCCCCGGAGTCGGCTGCCTTGG
CTGTGAGGCTGGAGGGAGATGAGCTGCTAGACCACCTGCGTCTCAGCATCTGCCCTGGGATGAGAGCATCTGG
ACACCCTCTCGCCAGGCTCGCTACAGCACTGAGTGAAGAAATGAAAGACAAAGGTGGATACATGAGCAAGATTT
GCAACTTGCTACCCATTAGGATAATGTCTTATGTAATGCTGCCCTGTACCCTGCCTGTGGAATCTGCCATTGCGA
TTGTCCAGAGACTGGTGACATGGCTTCCAGATATGCCCGACGATGTCTGTGGTTGCAGTGGGTGACCTCACAGG
TGTTCACTCGAGTGTGATGTGTCTGCTCCCCGCTCCAGGTCCCAAATGCCAGTGAGCAGCCAACAGGCCTCCC
CATGCACACCTGAGCAGGACTGGCCCTGCTGGACTCCCTGCTCCCCCAAGGGCTGTCCAGCAGAGACCAAAGCAG
AGGCCACCCCGCGGTCCATCTCAGGTCCAGCCTGAACTTCTTCTTGGGCAATAAAGTACCTGCTGGTGTGAGG
GGCTCTCCACCTTTCCAGTTTTTTCACTAGAGAAGAGTCTGTGAGTCACTTGAGGAGGCGAGTCTAGCAGATTCT
TTCAGAGGTGCTAAAGTTTCCCATCTTTGTGCACTACCTCCGCATTGCTGTGTAGTGACCCCTGCCTGTGACGT
GGAGGATCCCAGCCTCTGAGCTGAGTTGGTTTTATGAAAAGCTAGGAAGCAACCTTTCGCCTGTGCAGCGGTCCA
GCACTTAACCTCTAATACATCAGCATGCGTTAATTCAGCTGGTTGGGAAATGACACCAGGAAGCCAGTGCAGAGG
GTCCCTTACTGACTGTTTCGTGGCCCTATTAATGGTCAGACTGTTCCAGCATGAGGTTCTTAGAATGACAGGTGT
TTGGATGGGTGGGGGCCCTTGTGATGGGGGGTAGGCTGGCCCATGTGTGATCTTGTGGGGTGGAGGGAAGAGAATA
GCATGATCCCACTTCCCCATGCTGTGGGAAGGGGTGCAGTTCGTCCCCAAGAACGACACTGCCTGTCAGGTGGTC
TGCAAAGATGATAACCTTGACTACTAAAACGCTCTCCATGGCGGGGGTAACAAGATGATAATCTACTTAATTTTA
GAACACCTTTTTTACCTAACTAAAATAATGTTTAAAGAGTTTTTGTATAAAAAATGTAAGGAAGCGTTGTTACCTGT
TGAATTTTGTATTATGTGAATCAGTGAGATGTTAGTAGAATAAGCCTTAAAAAAAAAAAAATCGGTTGGGTGCAG
TGGCACACGGCTGTAATCCAGCACTTTGGGAGGCCAAGGTTGGCAGATCACCTGAGGTCAGGAGTTCAAGACCA
GTCTGGCCAACATAGCAAACCCCTGTCTCTACTAAAAATACAAAAATTATCTGGGCATGGTGGTGCATGCCTGTA
ATCCAGCTATTTCGGAAGGCTGAGGCAGGAGAATCACTTGAACCCAGGAGGCGGAGGTTGCGGTGAGCTGAGATT
GCACCATTTTCACTCCAGCCTGGGCAACATGAGTGAAAGTCTGACTCAAAAAAAAAAAAAATTTAAAAACAAAATAA
TCTAGTGTGCAGGGCATTACCTCAGCCCCCAGGCAGGAGCCAAGCACAGCAGGAGCTTCGCCTCCTCTCCAC
TGGAGCACACAACTTGAACCTGGCTTATTTTCTGCAGGGACAGCCCCACATGGTCAGTGAGTTTCTCCCCATGT
GTGGCGATGAGAGAGTGTAGAAATAAAGAC

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FIGURE 1374

MYDAERGWSLSFAGCGFLGFYHVGATRCLSEHAPHLLRDARMLFGASAGALHCVGVLSGIPLEQTLQVLSDLVRK
ARSRNIGIFHPSFNLSKFLRQGLCKCLPANVHQLISGKIGISLTRVSDGENVLVSDFRSKDEVVDALVCSCFIPF
YSGLIPPSFRGVRYVDGGVSDNVFFIDAKTTITVSPFYGEYDICKVKSTNFLHVDITKLSLRLCTGNLYLLSRA
FVPPDLKVLGEICLRGYLDAFRFLEEKGICNRQPGLKSSSEGMDPEVAMP SWANMSLDSSPESAALAVRLEGDE
LLDHLRLSILPWDESILDTLSPRLATALSEEMKDKGGYMSKICNLLPIRIMSYVMLPCTLPVESAIIVQRLVTW
LPDMPDDVLWLQWVTSQVFTRVLMCLLPASRSQMPVSSQQASPCTPEQDWPCWTPCSPKGC PAETKAEATPRSIL
RSSLNFFLGKVPAGAEGLSTFPSFSLEKSL

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FIGURE 1375

ACACTGCCTCGGTTTCGGCAAGTGGGTCAAGTTGGCTGGGGCTCACTTGGCAACGGGACGCGGGAACGAGGGGCGCG
GACGCAGGCCCGGGAGGACGCGGCGGGGGAACCTGGGGGCGCAGGGCTAGGGCAGCGGGCCGACCCGCACGGC
TTTCTTGAAAGCGCTGCCCCCTCGCCGCGGGCATGACCTCGCTGTGGAGAGAAATCCTCTTGGAGTCGCTGCTGG
GATGTGTTTCTTGGTCTCTCTACCATGACCTGGGACCGATGATCTATTACTTTCTTTGCAAACACTAGAACTCA
CTGGGCTTGAAGGTTTTAGTATAGCATTCTTTCTTCCAATATTCCTAACAATTACTCCTTTCTGGAAATTGGTTA
ACAAGAAGTGGATGCTAACCCTGCTGAGGATAATCACTATTGGCAGCATAGCCTCCTTCCAGGCTCCAAATGCCA
AACTTCGACTGATGGTTCTTGGCGTTGGGGTGTCTTCTCACTGATAGTGCAAGCTGTGACTTGGTGGTCAGGAA
GTCATTTGCAAAGGTACCTCAGAATTTGGGGATTCATTTTAGGACAGATTGTTCTTGTGTTCTACGCATATGGT
ATACTTCACTAAACCCAATCTGGAGTTATCAGATGTCCAACAAAGTGATACTGACATTAAGTGCCATAGCCACAC
TTGATCGTATTGGCACAGATGGTGAAGTGCAGTAAACCTGAAGAAAAGAAGACTGGTGAGGTAGCCACGGGGATGG
CCTCTAGACCCAACCTGGCTGCTGGCAGGGGCTGCTTTTGGTAGCCTTGTGTTCTCACCCTACTGGGTTTTTGGAG
AAGTCTCTCTTGTTCAGATGGGCAGTGAAGTGGGCATCCACATCCAGGGCCAGATCCTAACCCTTTGGAGGTG
CAGTACTGCTGTGCTTGGCAAGTGGATTGATGCTTCCATCTTGTGTTGTGGTTTCGTGGTACTGGTTTGATCTGGT
GGGTTACAGGAACAGCTTCACTGCGGGGCTCCTTTACCTGCACACATGGGCAGCTGCTGTGCTGCTGCTGTCT
TCGCCATCTTTACTGCATCCATGTGGCCCCAAACACTTGGACACCTTATTAACCTCAGGGACAAACCTGGGAAAA
CCATGACCATTGCCATGATATTTTATCTTCTAGAAATATTTTTCTGTGCCTGGTGCACAGCTTTTAAGTTTGTC
CAGGAGGTGTCTACGCTAGAGAAAGATCAGATGTGCTTTTGGGGACAATGATGTTAATTATCGGGCTGAATATGC
TATTTGGTCTTAAGAAAAACCTTGATTTGCTTCTTCAAACAAAAAACAGTTCTAAAGTGCTTTTCAGAAAGAGTG
AAAAATACATGAACTTTTTCTGTGGCTGCTTGTGGTGTGGGATTGTTGGGATTAGGACTACGGCATAAAGCCT
ATGAGAGAAAACCTGGGCAAAGTGGCACCAACCAAGAGGTCTCTGCTGCCATCTGGCCTTTTCAGGTTTGGATATG
ACAATGAAGGTGGTCTAGTCTAGAAAGATCAGCTCACCTGCTCAATGAAACAGGTGCAGATTTTATAACAATTT
TGGAGAGTGATGCTTCTAAGCCCTATATGGGGAACAATGACTTAACCATGTGGCTAGGGGAAAAGTTGGGTTTCT
ATACAGACTTTGGTCCAAGCACAAAGGTATCACACTTGGGGGATTATGGCTTTGTCAAGATACCCAATTGTGAAAT
CTGAGCATCACCTTCTTCCGTACCAGAGGGCGAGATCGCACAGCCATCACATTGACCGTTAACATTTTCGGGCA
AGCTGGTGGATTTTGTGCTGACACACTTTGGGAACCAAGATGACCTCGACAGGAACTGCAGGCTATTGCTG
TTTCAAACTACTGAAAAGTAGCTCTAATCAAGTGATATTTCTGGGATATATCACTTCAGCACCTGGCTCCAGAG
ATTATCTACAGCTCACTGAACATGGCAATGTGAAGGATATCGACAGCACTGATCATGACAGATGGTGTGAATACA
TTATGTATCGAGGGCTGATCAGGTTGGGTTATGCAAGAATCTCCCATGCTGAACTGAGTGATTAGAAAATTCAGA
TGGCAAAATTTAGGATCCCTGATGACCCCACTAATTATAGAGACAACCAGAAAAGTGGTCATAGACCACAGAGAAG
TTTCTGAGAAAATTCATTTTAATCCAGATTTGGATCCTACAAAGAAGGACACAATTATGAAAACAACCATAATT
TTCATATGAATACTCCCAAATACTTTTTATGAAACATTTAAACAAGAAGTTATTGGCTGGGAAAATCTAAGAAA
AAAAAGTATGTAAGATAAAAAGAAGAGATTAATGAAAGTGGGAAAATACACATGAAGAACCTCAACTTAAAAACA
CATGGTATCTATGCAGTGGGAAATTACCTCCATTTGTAAACTATGTTGCTTAATAAAAACATTTCTCTAAAAAAA
AAAAAAAAAAAA

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FIGURE 1376

MTSLWREILLESLLGCVSWSLYHDLGPMIYYFPLQTLLELTGLEGFSIAFLSPIFLTITPFWKLVNKKWMLTLLRI
ITIGSIASFQAPNAKLRLMVLALGVSSSLIVQAVTWWSGSHLQRYLRIWGFILGQIVLVVLRWIWYTSLNPIWSYQ
MSNKVILTLSAIATLDRIGTDGDCSKPEEKKTGEVATGMASRPNWLLAGAAFGSLVFLTHWVFGEVSLVSRWAVS
GHPHPGPDNPFGGAVLLCLASGLMLPSCWFRGTGLIWWVTGTASAAGLLYLHTWAAAVSGCVFAIFTASMWPQ
TLGHLINSGTNPGKMTIAMIFYLLEIFFCAWCTAFKFVPGGVYARERSDVLLGTMMLIIGLNMLFGPKKNLDDL
LQTKNSSKVLFRKSEKYMKLFLWLLVGVGLLGLGLRHKAYERKLGKVAPTKEVSAAIWPFRFGYDNEGWSSLERS
AHLNETGADFITILES DASKPYMGNNDLTMWLGEKLGFTDFGFPSTRYHTWGIMALSRYPIVKSEHHLLPSPEG
EIAPAITLTVNISGKLVDFVVFTHFGNHEDDLDRKLQAIHAVSKLLKSSSNQVIFLGYITSAPGSRDYLQLTEHGNV
KDIDSTDHHRWCEYIMYRGLIRLGYARISHAELSDSEIQMAKFRIPDDPTNYRDNQKVVIDHREVSEKIHFNPRF
GSYKEGHNYENNHNHFMNTPKYFL

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FIGURE 1377

ATAATTACCAATAAAGGACTTACAGGTGTTTATAACTTGTCTAAGCTCAAATCTCCCATATATAACTTGCTGGC
AAATCATTTTATTTCCAGGGCATTAGCTATGAGTTGCTAGCTTTAAGTTGAACTATATCCTGTGCATGGCTTACTTCG
AATTGACATGCTGCAGGCTGTATCTTGACATGAACAAGATAGCATGTGATGTGGCTTTGTTTTAATTCAGTTAGC
CACTGGTTTTTAAATGTGTGGGTATATTCTACTCCCAAAGCAAAATTCGTGGCATCTCTGGAATACTACCTGAG
AATTTTTGTGTGCCATGTCGAAGAAACGCAAATGGGATGATGACTATGTTTCGCTACTGGTTCACCTGTACAACGG
AAGTAGATGGAACCTCAGCGTCCACAGTGTGTGTTGTGTAACCTCAGTATTTTCAAATGCTGACCTCAGACCATCAA
AACTGTCAGACCATTTTAAACAGACAGCATGGTGGTGTAGCTGGGCATGATCTCAATAGCCTGAAGCATATGCCAG
CACCATCTGATCAGAGTGAAACCTTGAAAGCATTGGAGTTGCATCTCATGAGGATACTTTATTACAAGCATCGT
ATCAATTTGCGTATTTATGTGCCAAGGAGAAGAATCCTCATAACAGTAGCTGAAAAGTTAGTGAAACCTTGTGCAC
TGGAAATAGCACAAATAGTTTTGGGACCAGATGCACAAAAAAGCTTCAGCAGGTACCCTTATCAGATGATGTGA
TCCATTCTAGAATTGATGAAATGAGCCAGGATATCTTACAGCAAGTTCTAGAAGATATCAAAGCCAGTCTCTTA
AAGTGGGTATTTCAGCTTGCTGAGACAACCTGACATGGATGACTGCAGTCAGCTAATGGCATTGTGTGCGCTATATAA
AAGAAAGAGAGATCGTAGAAGAATTTCTCTTCTGTGAACCATTGCAGCTATCCATGAAAGGAATAGATGTGTTCA
ATCTCTTCAGAGACTTCTTTCTGAAGCATAAGATAGCACTTGATGTATGTGGCTCTGTTTGTACTGATGGTGCCT
CCTCTATGCTAGGAGAAAATTCGAGTTTTGTTGCCTACGTGAAAAAAGAGATACCTCATATCGTAGTTACACATT
GTTTATTGAATCCTCATGCACTTGTCTATAAAGACATTGCCTACAAAACCTGAGGGATGCTCTGTTTACTGTGGTGA
GGGTAATAAATTTTCATCAAAGGGAGAGCTCCAAATCATCGCCTATTTTCAGGCTTTCTTTGAAGAAATTGGCATAG
AATATAGTGTCTCTCTTTTCCATACTGAAATGAGGTGGCTTTCCCGAGGCCAAATACTTACTCACATTTTTGAAA
TGTATGAAGAAATAAATCAGTTTTCTTACCACAAGAGCAGTAATTTAGTTGATGGCTTTGAAAATAAAGAGTTTA
AAATTCACCTAGCATACCTTGAGATTTATTCAAACACTTAAATGAACTCAATGCATCTATGCAGAGGACTGGGA
TGAACACAGTATCAGCTAGAGAGAAGTTATCTGCTTTTGTAGGAAGTTCCATTTTGGCAAAAACGAATTGAGA
AAAGAAATTTTACCAATTTTCTTTTCTTGAAGAAATAATTGTTTCGGATAATGAAGGCATATTCATTGCAGCTG
AAATAACACTGCATCTGCAACAATTGAGCAACTTCTTCCATGGATATTTTCCATTGGAGATCTTAATGAGGCAA
GTAAATGGATATTGGATCCATTTCTTTTAAATATCGATTTTGTGATGATAGTTATTTAATGAAAAATGATCTTG
CTGAATTACGAGCTAGTGGCCAAATCCTAATGGAATTTGAGACAATGAAGCTTGAGGATTTCTGGTGTGCCCAAT
TCACAGCATTTCCAAACCTGGCAAAGACAGCTCTAGAAATCCTTATGCCATTTGCAACTACATACCTTTGTGAGT
TGGGATTTTCATCACTTTTACATTTCAAACCAAAGTCCAGAAGCTGCTTTAATCTGAGTGATGATATCCGTGTGG
CTATTTCAAAAAAAGTTCCTCGTTTTCTCGGACATCATTGACCAAAAGCTACAGCTACAACAGAAGTCACTGTAAG
CTGATATACTTTTTTAAATGAATAATTTCAATCTTAATATCATTGTAAATTAAGCTGTAATTCGTCTCTTTTCAT
ATTTATGATATACTGAATTCATGTCTAAAAAAGCTTAAAGAACTTTAATTTTGAATGAGGCATGTGAAAATATGTT
TTGAGAATAAAAACACAGCAGAAAAGATTAAGTAAAAA

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FIGURE 1378

MSKKRKWDDDYVRYWFTCTTEVDGTQRPQCVLCNSVFSNADLRPSKLSDFNRQHGGVAGHDLNSLKHMPAPSDQ
SETLKAFGVASHEDTLLQASYQFAYLCAKEKNPHTVAEKLVKPCALEIAQIVLGPDAQKKLQQVPLSDDVIHSRI
DEMSQDILQQVLEDIKASPLKVGIQLAETDMDDCSQLMAFVRYIKEREIVEEFLFCEPLQLSMKGIDVFNLFDRD
FFLKHKIALDVCGSVCTDGASSMLGENSEFVAYVKKEIPHIVVTHCLLNPHALVIKTLPTKLRDALFTVVRVIN
IKGRAPNHRLEFQAFFEEIGIEYSVLLFHTMRWLSRGQILTHIFEMYEEINQFLHHKSSNLVDGFENKEFKIHLA
YLADLFKHLNELSASMQRGTGMNTVSAREKLSAFVRKFPFWQKRIEKRNFNTNFPFLEEIIIVSDNEGIFIAAEITLH
LQQLSNFFHGYFSIGDLNEASKWILDPFLFNIDFVDDSYLMKNDLAE LRASGQILMEFETMKLEDFWCAQFTAFP
NLAKTALEILMPFATTYLCELGFSSLLHFKPKSRSCFNLSDDIRVAISKKVPRFSDIIDQKLQLQKSL

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FIGURE 1379

ATGGGGGCGTGGGCCCTGGCAAGTGCACTCCTCAGCCAATCAGCGTCCTGCCCCGGCTGGTGGATTTCGGTTACAAG
CCCAAGATCACCCATACTCCAGCCTCTTTCTCCTCCTCCCGCAGCTCCATTTCATTGGTCCCGCCGCACCGGGC
CTGCTGGGGCTCCGCTTCCGTTCCACTGCTCAGCTGCCGCCTGGTGGGGGCCACCAAGGGCAGGCATCCCAGGGGCT
TTGTCTGACTGGACTGGGCCAGTGCAGAAATGGGGGTTTCAGGCAGGGCTGTTTGGGATGCTGGGCTTCTGGGGGT
GGCCCTGGGGGGCTCCCTTGCCCTCCGCTGGTACAGGACCTCCTGCCACTTGACCAAGGCCGTCCCTGGCAACCC
ACTGGGGTACCTGAGCTTCTGGCCAAGGATGCTCAGGGACTGGCCCTGATCCATGCCCGCTGGGATGCGCATAG
GAGGCTGCAGGCATGTAGCTGGGAGGATGAGCCGGAGCTCACCGCAGCCTACGGTGCTCTCTGTGCTCATGAGAC
TGCTGGGGCTCCTTCATCCACACCCCCGACCCGAGCTGCAGAGAGCACTGGCCACTCTTCAGAGTCAGTGGGA
GGCATGCCGAGCGCTTGAGGAGAGTCCAGCAGGGGGCCAGGAAGAAGCGAGCAGCAGGGCAGAGTGGAGTCCCTGG
TGGAGGGCACCAGCGAGAGAAGAGAGGATGGACCATGCCTGGCACACTGTGGTGTGGAGTTGGAGATTCTGCTGG
GAATCCTCGGAGCTGGGGGTCTTCAGGGACCTGATCTCTGTTGCCGGGAACATGACCGCTGCCACAGAACAT
CTCACCTTGCACTACAATATGGCATCCGAACTACCGATTCCACACCATCTCCCACTGTGACTGTGACACCAG
GTTTCAGCAATGCCTACAGAATCAGCACGACTCCATCTCGGACATCGTGGGCGTGGCCTTCTTCAACGTGCTGGA
GATCCCTGCTTTGTGCTGGAGGAGCAGGAGGCGTGTGTGGCGTGGTACTGGTGGGGCGGGTGTAGGATGTACGG
CACAGTGGCCCTCGCTCGCCTGCAGCCAGGACCTTCTACAATGCCTCCTGGAGCTCCCGGGCCACCTCCCCAAC
TCCCAGCTCCCGGAGCCAGCCCTCCCAAGCCTCGACAGAAGCAGCACCTTCGGAAGGGGCCACCACATCAGAA
AGGGTCCAAGCGCCCCAGCAAAGCCAACACCACAGCCCTCCAGGACCCTATGGTCTCTCCAGGCTTGATGTGGC
CCCCACAGGCCTCCAGGGCCACAGGGTGGCCTAAACCTCAGGGTGCCCGCTGGGTCTGCCGCAGCTTCCGCCG
CCACCTGGACCAGTGTGAGCACCAGATTGGGCCCCGGGAAATCGAGTTCAGCTGCTCAACAGCGCCCCAAGAGCC
CCTCTTCCACTGCAACTGCACGCGCCGTCTGGCACGCTTCTTGAGGCTCCACAGCCACCCGAGGTTACCAACAT
GCTTTGGGAGCTGCTGGGCACAACCTGCTTCAAGCTGGCCCTCCACTGGACTGTGTGGAAGGCAAAAAGTGTTC
CAGAGACCTTAGGGCCATCAGGGTGTAGCCCGGCACTTGCGGAGGCTTCAGCAGAGGCGACACCAGCTCCAGGA
TAAAGGCACAGATGAGAGGCAGCCATGGCCTTCAGAGCCCTGAGAGGCCCCATGTCATTCTACAACCAGTGCCT
GCAGCTAACCCAGGCAGCCAGGAGACCCGACAGGCAGCAGAAGTCTGGAGCCAGTGACCTCAGTTTCAGCTTTC
CTGGGCACCAGCCTGGACCTTGCCCATGGCTATGCCAAGCCTTGGAATCTCAGCCTCCCCTCCGTAGGTTAGAC
TGAAGCATGGCAGAGGCTGTTGTGGACAATCAAGAGGATGAATGGGGGGATCTCAAGGCCCAAATGCTGGACCAC
ATCTCCTGCTGTTCTGGGTAACCTTGAGCTATGTATGACACAACCTCTTCTATGCCTGGATGTGGTGTTCAGGAAG
CTCATTTCTGATGCCCTGGGCTTTGGCCTTGCCAGGGAACCTTCACATACAGATGAGAATGGGGAAAGGGTAACCTA
TTGCAGCAGCCCCAGGCAGTACCAGGAGGAGGTACATGTATGTCCGTGTTGCAAAAATAATACATGCCTCAAAAA
CCTGCCTAGGGGAGCCCTAGTGCCTGGGTGCTGTGGCCTGAGGTAGCAGGTGGGAAGTTAGGGATGTACAGAAA
TGTCTGTGCTGAATCCAGGATTGGGGTGGGTGTTGGAGAGGGCTTTCAGCTCCCCTCCTCCAGGGGGGCTCT
TTTTTTAACGGCTGCCGTGCCCTTCTGGCCAGCCCTAAACCTAAATTCAAATCTCCTCCATGCCTTTGCGCAA
AGGACCTCCCTCTTGCACTCTAAGCCTTAGTTTCTCCTCTAAAAAAGGGGTCTCTAAACAGGAGCTACCTCA
TAGGGTTGTTGAGGATTAAGTGAACCAATACATATACAGTGCTTAGCACTTAATAAGTATTCCCCCTGCGACAC
CTAGCTGAACTATGGTTTGGTGTCTGATCTTGAGAGGTTGATGTAACCTTTTAAAGGCCTCAGTTCGCTCACCTG
TGAAATGGGTCTAAGAATAGCACTGATCTCACAGGGTTGTGATGCAGATTAAAGGAGATGGCATGTGTAATGAAA
AAAAAAAAAAAAAAAAAAAA

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FIGURE 1380

MGVQAGLFGMLGFLGVALGGSPALRWYRTSCHLTKAVPGNPLGYLSFLAKDAQGLALIHARWDAHRRLOACSWED
EPELTAAYGALCAHETAWGSFIHTPGPELQRALATLQSQWEACRALEESPAGARKKRAAGQSGVPGGGHQREKRG
WTMPGTLWCGVGDSAGNSSELGVFQGPDLCCREHDCRPQNISPLQYNYGIRNYRFHTISHCDCDTRFQQCLQNH
DSISDIVGVAFFNVLEIPCFVLEEQEACVAWYWWGGCRMYGTVPLARLQPRTFYNASWSSRATSPTPSSRSPAPP
KPRQKQHLRKGPPhQKGSKRPSKANTTALQDPMVSPRLDVAPTGLQGPQGGLKPQGARWVCRSFRRHLDQCEHQI
GPREIEFQLLNSAQEPLFHCNCTRRLARFLRLHSPPEVTNMLWELLGTTCTFKLAPPLDCVEGKNCSRDPRAIRVS
ARHLRRLQQRRLQDKGTDERQPWPSEPLRGPMSEFYNQCLQLTQAARRPDRQQKWSQ

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FIGURE 1381

GAGCGCCTTCCCGTTCCCGGTGACCGTGTGCTGTGCCACATCCTGGCTCTGTGCGCTGGGCTCCCGCCGCTGCT
GCGCGCCTGGCGCGTGTGCCCCGCGCCGCGCCGCTCTCGGGCCCCGGACCCAGTCCGCATCCGTCGTCCGGCCCCGCT
GCTGCCGCGCGCTTCTACCCGCGCTACGTGCTACCGCTCGCCTTCGGCAAGTACTTCGCGTCCGTGTGTCAGCGCA
CGTCAGCATCTGGAAGGTGCCCCGTGTCTATGCACACACCGTCAAGGCCACCATGCCCATCTGGGTGGTCCCTCCT
GTCCCGGATCATTATGAAGGAGAAGCAGAGCACCAAGGTATACTTGTCACTCATCCCCATCATCAGCGGTGTCTCCT
GCTGGCCACCGTCACCGAGTTGTCTTTTGACATGTGGGGACTCGTCAGCGCCCTCGCCGCCACGCTGTGCTTCTC
GCTTCAGAACATTTTCTCCAAAAGGTCTTGCGAGATTACGGATCCACCATCTCCGGCTGCTCAACATCCTGGG
CTGCCACGCCGTCTTCTTTATGATCCCCACCTGGGTCTTGGTGGACCTCTCGGCTTTCCTGGTCAGCAGCGACTT
GGTGAGTTGTACAGCACCAAGAACACGCCATTTTCTTGGCTTAGTTCCAGAATAGGTGCTTTGTTGAGGAGCTGTA
GCTGCATGTTAACATTGTGGTATCTTTTGGGCACCTGACAGCCAGCGCTTTCAGCAGTCAGTCCTCTGTAATGCC
TCACGGTGACGATGCAGCCATCGAGGAAGTGGGTTTCTGTGTATTTCCTTCTCTGGTGTGCTTGATCCAGGT
GCTGATAGCTGCTGTGTGTGCGCCAGTAGCGTCAAGGAAGAGAAGGTGACTCTTTCACCTCCTGACAGTATAGTC
CAGATAGCACATTGACTTTTTTATTTTACTCATTTTTTATTTTAAATGTTTATTTTTTTAGAGACAGAACCTCGCT
CTGTTGCCAGGGCTGGAGTGCAGTGGCACAATCATGGCTCACTGCGGCCCTTGACCTCAATCCGGGGCTCAAGCGA
TCCTCCCACAGCCTCCCGAGTAAGTGGGACTGCAGGCGAATACCACCATGCCTGGCTAATTTTTTTTTTGTGTTGAT
TTTTGTTTTTTTACTGTTTTTGGAGAGACAGGGTCTCGCTATGTTGCCCAGGCTGGTCCTGAACCTCCTGGCGTTA
AGAGATCTGCCTTGGCCTCCCAAAGTGCTGGGATTACAGATGTGAGCCACTGTGCCTTGCCAGCCCTGGAACTTT
GAAACTATGCACTGGCCAAAAAAAAAAAAAAAAAAAAAAAAAAGCCGGGCGCAGTGGCTCACGCCTGTAATCC
CAGCACTCTGGGAGGCCAAGGCGGGCGGATCACGAGGTGAGGAGTTTGAGACCAGCCTGGCCAATATGGTGACAC
CCTGTTTCTCCCAAAAATACAAAATTAGCCAGGCATGGTGGCTCGCGCCTGTAGTCCCAGCTACTTGGGAGGCT
GAGGCAGAAGAATTGCTTGAACCCAGGATGTGGCGTTGCAGTGAGCCGAGATGGTGCCACTGCACTCCAGCCTG
GGTGACAGAGGGAGACTCCGTGTCAAAAAAAAAAAGAAAAAACGTGCGCTGCCTGGGTGTGGTGGCTTACGCCT
ATAATCCCAGCACTTTGGGAGGCCAAGGTGTGTGAATCATTCGAGGTGAGGAGTTCGAGACCAGCCTGACCAATA
TGGTGAAATCCTGTCTCTACTAAAAATACAAAATTAGCCAGGCGTGGTGGTGACGCCTGTAATCCCAGCCACTT
GGGAGGCTGAGGTGGGAGAATCGCTTGAACCCAGAAGGCAGAGTTTGCAGTGAGCCGAGATCGCACCCTGCACT
CCAGCCTGGGCAACAAGTGTGAAGCTCCGTCTC

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FIGURE 1382

MPIWVLLSRIIMKEKQSTKVYLSLIPISGVLLATVTELSFDMWGLVSALAATLCFSLQNIFSKKVLRDSRIHH
LRLLNILGCHAVFFMIPTWVLVDLSAFLVSSDLVSCTAPRTRHFLG

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FIGURE 1383

CCAAGATTCTGGCACGAGGGACTGTACTGAACAGCAAAAATTAAGTGACTTGCTGCCCTGCACATCATGGCACTGC
CATTCCGTAAGGACTTAGAAAAGTACAAAGACCTTGATGAAGATGAGCTCCTTGGGAATCTGTTCAGAAACAGAAC
TGAAACAACTGGAACTGTTTTGGATGATCTTGACCCCGAGAATGCCCTTCTGCCCTGCAGGGTTCCGGCAGAAGA
ACCAGACATCAAAGTCCACCACAGGGCCATTTGATAGAGAGCATCTCCTTTTCATATCTGGAGAAAGAAGCATTGG
AGCATAAAGACAGGGAAGACTATGTGCCCTACACTGGAGAAAAAAGGGAAAAATATTTATCCCCAAACAGAAAC
CTGTACAGACTTTTACAGAAGAAAAAGTGTCTCTTGATCCAGAATTAGAAGAAGCTTTGACAAGTGCTTCTGATA
CAGAATTGTGTGACCTCGCAGCAATTCTTGGGATGCACAATTTGATAACGAATACAAAGTTCTGTAATATAATGG
GAAGTAGTAATGGTGTGACCAAGAACATTTTTCAAATGTGGTCAAAGGTGAAAAGATTCTTCCGGTATTTGATG
AGCCACCAAATCCAACCAATGTAGAAGAGAGTTTGAAGAGAACTAAAGAAAACGATGCTCATCTTGTGTAAGTTA
ATTTGAATAATATAAAGAATATCCCAATTCCAACCCTAAAAGATTTTGCAAAGGCTTTGGAAACCAACACACATG
TGAAATGTTTTCAGTCTTGACGCCACCCGGAGCAATGACCCTGTGCTACTGCTTTTGCAGAAATGCTGAAAGTGA
ACAAAACCTTTGAAGAGCTTAAATGTGGAGTCCAACCTTTATCACGGGAGTTGGGATTCTGGCACTGATTGATGCGT
TAAGAGATAATGAAACCCTGGCAGAGCTCAAGATTGACAATCAGAGGCAGCAGTTGGGGACAGCTGTAGAATTGG
AAATGGCCAAGATGCTTGAGGAAAATACAAATATCCTTAAATTTGGATATCAGTTTACACAGCAGGGACCACGAA
CCAGAGCAGCTAATGCTATAACAAAAACAATGACTTAGTGCGTAAGAGACGAGTTGAAGGAGATCACCAGTAAG
TCTGCAAAGGTGTAATCTTTGGAAGACTTCAGAAGATCACCAAGGGCTCATGTTGGTGACATCATGTAAAATTTT
CCTGGGTAGAAGGGAAAAGACTGGAAAAATTTTTTTAGTGACATGCATTTTTTTTTTTAGTTGTTATCAAATTGTA
AAATCAGTAATGTGATATTTTATATTCTGAAACATTTCTACTTTCTGCTAAAAATCAATTTTAATTTAGTTTAATT
GAATGATTTATGATGAATCTTGGGCAAAAAAATACAACCTGTAAAAAATTTACAGGTCATTTGTGTAGAATAATT
TGAACATTGTGAGGACCAATCTTTTTTAAATCAAAGGGATGTTGCTGGTATCAGAATTGTTATTGCTTCATTTA
GACATAAAACACTTAAGTGTCTTCTCCTCCGTGACCTGGAGAGTTTCCATTTTTTAAATACATGAACCTGG
CAAGGGTGTGATTTTTCTTTATCAAGAGAACAAAATGCCAGAATGTTAAACAGTTAACTCAAATCTAGTCATC
TGTGTAGGATAAAGCAGGTCTCCCTCCCCACCCCCAAAAAAGGCGTACAGCCAACTCTTAGTTATTTAGGGTAA
GAGAAAAAAGAAAACCTGTAAACAATGAAATCAAAGATAATAAATATGATAGATTCCAGTATGAGGCACCTTGC
AAAACAGTCATTTAACTGATGGTTACTGTAAGTCAGTTGGAAGCTGGCATGTATGTAAATTACTTGGTGTTACA
CCATATCCGAAGAAGTTCCTATGTGCAGTGCAGAATTGCATAAACAGTATTTCAATCACTGCTACAAATCTTCCA
ACCAAGAAGGAAAACCTGCTATTCTTCATAAATCTAATTTTTAGTATATGCTTCCTTTCATCTTATACTTTTATCA
ATATTTATAAAAGTCATTTCTATAATAAAGCAGTCTTTCTTGCTCA

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FIGURE 1384

MALPFRKDLEKYKDLDEDELLGNLSETELKQLETVLDDLDPENALLPAGFRQKNQTSKSTTGPFDRHLLSYLEK
EALEHKDREDYVPYTGEKKGKIFIPKQKPVQTFTEEKVSLDPELEEALTSASDTELCDLAAILGMHNLITNTKFC
NIMGSSNGVDQEHFSNVVKGEKILPVFDEPPNPTNVEESLKRTKENDAHLVEVNLNNIKNIPITLKDFAKALET
NTHVKCFSLAATRSNDPVATAFAEMLKVNTLKSINVESNFIITGVGILALIDALRDNETLAELKIDNQRRQLGTA
VELEMAKMLEENTNILKFGYQFTQQGPRTRAANAITKNNDLVRKRRVEGDHQ

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FIGURE 1385

GGCTTACCACAGCCTCAACTTCTCAGGCTCCAGCCATCCTCTCACCTCAGCCTCCCAAGTAGCTAGGACTACAGG
CGTGTGCCACTGTGCCTGGCCTAATTTTATAATTTTAAATGTCTGTAAAGTAAGCAAAATGACTAGTTGAATTGT
ACATTAAATATATCTAATCCCTAAGAGTTTATAATGGAAAGGGATCAAAACTTTTTCAATTGCGATAAAACTCAC
ATAACAAAATTAACCATTTTAAAGTGAACAATTTAGTGGTATTTAGTGCATTTCACAGTGTCGTGCAGCCAACACC
TGTATCTAGTTCCAAGACATTTTCATCTCCCCAAAAGGAGACCCCATACACGTGAAGCAGTCCCTCTCCCATCCC
CCTCCTCCCATCCGCTAGCAACTGCTAATTTGCTTTTTTGTCTCTATGGATTACCTGTTCTGGATAATTTACATA
AATGGAATTATACAATAAAGGACCGTTTGTTTCTAACTTCTTTCACTAAGCATCCATGTTATAGCATATATCAGA
CTTCATTCCTTTATGACTGAATAATACTTTGCTGAATGGATATATCAGTGTTTTATTTGTCCTTTCATCAGTTGG
TGGACATTTGGGTTCTTTCTACCTTTTGGCTATTGTGACTAGTGGTGTTGCAAACATTCATGTACAAGTTTTTGT
TTGAATGCCIGTTGTGCTAGTTCTTCTAGATTTATACTTAGAAGTGGAAATGCTGGGTCATATGGTAATTTCTCTGT
TTCAACTTTTTGAGAGACCACGAAACCGTTTTCCACAGTGCTGGCACCATTGACATGCCCACTAGAAATATATG
AGAGTTCCATTTTCTTCACATCTTCTGACAGCTTTTGGGGTGTGGGATGATTCGTCTAATTGGGAAAATAAGT
ACCTTATTTGGGCCTATATGGTATTTTAAATCTGTGTGTCTGCTCCCAACTCTGTAGCCCTGCCCTCCCTTAT
ATTGTGTATCCTGTTTCAGATTGTTCCGTTTCTTCTGAGACACTGCATATACCCCTACATGTATCTGTGCTAGG
CATACTCCCTGTAACCTTCATGGCATTTTGTAAATGCTGTGTACCTGTTACGTATACTGAGTGGGAGTGTCTCA
TTTGCTGTAGAATCTCTGCATTAGTGTAGTGTCTGGCACACAGTAGCTGCTCAGGCATTTTTTAAGTATATGAT
TATTGGGAAAACCTACAGAGCTAGGGAGAGATCTGAAGAAATACTAGAAATTTTTTTCTGCAAAGAAAACCTTAGA
AAATTGTTGACATCATCTGTGGCATGCAGCAAAAGTTGATGTAAAAGGAACAGAAAGACCTATGGAGATAATGGG
ATGTAATAACAGAAAACATACAGAAACAATTGGTTCTGAAATCAGTTAAGAGCAGAACTGGAATTCATACTCTGT
GGAATGAATCAGCAATGTGGAAGGAGTAACAAGATTTTTTAAAAAGATTTTGAATTTAGGCTGGGTGCAGTGGCT
CACGCCTGTAACCCCATCACTTTGGGAGGCCAGAGTAGGTGGATTGCTTCAACCCAGGCATTGAGACTAGCCTG
GACAGCATGGCAAAACCCTATCTCTACAAAAATAAAAAATTAGCCAGGTGTGGTGGCATGCGCCTGTAGTCCCA
TCTACTTGGGAGGCTGAGGTGGATGGATCACCTGAGCCTGGGAAGTGGAGGTTGCAGTAGGCTGAAGTCATGCCA
CTGCACTCAAACCTGGCGGACAGAGTGAGACCCTATCTCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1386

MYKFLFECLLSVLLDLYLEVELLGHMVISLFLQFERPRNRFQWWHLTCPLEIYESSIFFTSSDSFLGCWDDSS
NWENKYLIWAYMVFLILCVCSQTL

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FIGURE 1387

GGCACGAGGGCCAGGAACGCCAGCCGTTACGCGTTCGGTCCTCCTTGGCTGACTCACCGCCCTCGCCGCCGCAC
CATGGACGCCCCCAGGCAGGTGGTCAACTTTGGGCCTGGTCCCGCCAAGCTGCCGCACTCAGTGTTGTTAGAGAT
ACAAAAGGAATTATTAGACTACAAAGGAGTTGGCATTAGTGTTCTTGAAATGAGTCACAGGTCATCAGATTTTGC
CAAGATTATTAACAATACAGAGAATCTTGTGCGGGAATTGCTAGCTGTTCCAGACAACCTATAAGGIGATTTTTCT
GCAAGGAGGTGGGTGCGGCCAGTTCACTGCTGTCCCTTAAACCTCATTGGCTTGAAAGCAGGAAGGTGTGCGGA
CTATGTGGTGACAGGAGCTTGGTCAGCTAAGGCCGAGAAGAAGCCAAGAAGTTTGGGACTATAAATATCGTTCA
CCCTAACTTGGGAGTTATACAAAAATTCCAGATCCAAGCACCTGGAACCTCAACCCAGATGCCTCCTACGTGTA
TTATTGCGCAAATGAGACGGTGTCATGGTGTGGAGTTTGACTTTATACCCGATGTCAAGGGAGCAGTACTGGTTTG
TGACATGTCCTCAAACCTTCTGTCCAAGCCAGTGGATGTTTCCAAGTTTGGTGTGATTTTTGCTGGTGCCAGAA
GAATGTTGGCTCTGCTGGGGTCACCGTGGTGATTGTCCGTGATGACCTGCTGGGGTTTGCCCTCCGAGAGTGCCC
CTCGGTCCTGGAATACAAGGTGCAGGCTGGAAACAGCTCCTTGTACAACACGCCTCCATGTTTCAGCATCTACGT
CATGGGCTTGGTTCTGGAGTGGATTAAAAACAATGGAGGTGCCGCGGCCATGGAGAAGCTTAGCTCCATCAAATC
TCAAACAATTTATGAGATTATTGATAATTCTCAAGGATTCTACGTTTGTCCAGTGGAGCCCCAAAATAGAAGCAA
GATGAATATTCCATTCCGCATTGGCAATGCCAAAGGAGATGATGCTTTAGAAAAAGATTTCTTGATAAAGCTCT
TGAACCTCAATATGTTGTCTTGAAAGGGCATAGGTCTGTGGGAGGCATCCGGGCCTCTCTGTATAATGCTGTCAC
AATTGAAGACGTTCAGAAGCTGGCCGCCTTCATGAAAAAATTTTGGAGATGCATCAGCTATGAACACATCCTAA
CCAGGATATACTCTGTTCTTGAACAACATACAAAGTTTAAAGTAACTTGGGGATGGCTACAAAAAGTTAACACAG
TATTTTTCTCAAATGAACATGTTTATTGCAGATTCTTCTTTTTGAAAGAACAACAGCAAAACATCCACAACCTCT
GTAAAGCTGGTGGGACCTAATGTCACCTTAATTCTGACTTGAACCTGGAAGCATTTTAAGAAATCTTGTTGCTTTT
CTAACAAATTCCCGCGTATTTTGCCTTTGCTGCTACTTTTTCTAGTTAGATTTCAAACCTTGCCTGTGGACTTAAT
AATGCAAGTTGCGATTAATTATTTCTGGAGTCATGGGAACACACAGCACAGAGGGTAGGGGGGCCCTCTAGGTGC
TGAATCTACACATCTGTGGGTCTCCTGGGTTCAAGGTCAACATTGACCATTGGAGGAGT
GGTTTAAGAGTGCCAGGCGAAGGGCAAACCTGTAGATCGATCTTTATGCTGTTATTACAGGAGAAGTGACATACTT
TATATATGTTTATATTAGCAAGGTCTGTTTTTAATACCATATACTTTATATTTCTATACATTTATATTTCTAATA
ATACAGTTATCACTGATATATGTAGACACTTTTAGAATTTATTAAATCCTTGACCTTGTGCATTATAGCATTCCA
TTAGCAAGAGTTGTACCCCTCCCGAGTCTTCGCTTCTCTTTTTAAGCTGTTTTATGAAAAAGACCTAGAAGT
TCTTGATTCATTTTTACCATTCTTTCCATAGGTAGAAGAGAAAGTTGATTGGTTGGTTGTTTTCAATTATGCCA
TTAAACTAAACATTTCTGTAAATTACCCTATCCTTTGTTCTCTACTGTTTTCTTTGTAATGTATGACTACGAGA
GTGATACTTTGCTGAAAAGTCTTTCCCTATTGTTTATCTATTGTCAGTATTTTATGTTGAATATGTAAAGAACA
TTAAAGTCCTAAACATCTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1388

MDAPRQVVNFGPGPAKLPHSVLLEIQKELLDYKGVGISVLEMSHRSSDFAKIINNNTENLVRELLAVPDNYKVIFL
QGGGCGQFSAPVPLNLIGLKAGRCADYVVTGAWSAKAAEEAKKFGTINIVHPKLGSYTKIPDPSTWNLNPDASYVY
YCANETVHGVEFDFIPDVKGAVLVCDMSSNFLSKPVDVSKFGVIFAGAQNVSAGVTVVIVRDDLGLGFALRECP
SVLEYKVQAGNSSLYNTPPCFSIYVMGLVLEWIKNNGGAAAMEKLSSIKSQTIYEIIDNSQGFYVCPVEPQNRSK
MNIPFRIGNAKGDDALEKRFLDKALELNMLSILKGHRSVGGIRASLYNAVTTIEDVQKLAAFMKKFLEMHQL

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FIGURE 1389

GTGCAGAAAGCACCGTCTTTTACTAGAAGAAGACAATAAAATGTTGGTCAATGAACTGAATCATTGAAAGAAAA
AGAATGCCAATATGAAAAAGAGAAAGCAGAAAGAGAAGTAGCTGTGAGACAGCTTCAACAAAAACGAGATGATGT
CTTAAACAAAGGATCAGCAACAAAGCTCTGCTGGATGCTTCATCGCGTCACTGCACCTATTTAGAAAATGGGAT
GCAGGATTCAAGGAAGAAATTAGACCAGATGAGAAGTCAATTTCAAGAAATACAGGATCAACTTACAGCTACTAT
AAGATGTACTAAGGAGATGGATGGCGACACACAAAAGCTTGAAGTAGAACATGTGATGATGAGAAAAATTATTAA
AAAACAGGATGACCAAATTGAGCGGCTTGAGAAAATCCTGCAGCATTCAAGTTTGATGCTGCAGGTGTTTGAGAG
CTAGATGAAGATATGGACATTTCTGGAATTAAGAGCCCCCTCTACATTGAGCACAAGACAGTGACGAATCCACAT
TCTTCAGCCAGAAAGTCACCTCTGAGAGCCAAATGTCTGACTATAGAAAGGAGAGTCAAAGAATGATAACGACAT
CTCAGGAAAATTGTGAAAATAATCAGCAGCCGGATGTGGATAACCCCTTCAAATTTCTCCTGGGGCCTCCAACCA
CCCCACTGGTGTCTCCTGCTGACAGTGATTTCAATTTTTCTGGGCTGGAGCTCCCTGATGGAGGGGCAGGCC
ACCATCTTTGCTGTTTTTGCAACTTAGCCACTTCAGCCTTCAGTCTTTGGAGTGTCCAAGGAGACCAGGGGTGA
TGTGGACCCTCAGCATAGCACAGCTGCTCTATAAAGATGAGGCCAGACTGCTTTTTTGGAGCACTTCCCAATGCC
ATTCTCTCTCACTGGGCAAAACCTCCAACTGGGGTCTCCAGCCACCTCCTACAGGTGTGTTGGGCCAGCAACA
AGTTCATTACATCTCCCTAGGGCAAAGCTTCCAAAGGGAGCGGTAGGCTGCCATCTTTGCTGTTTCACAGGCTT
CACTGATGATAACTCCAGGTACTGGAATACTGAGGCTACTAGAGACTGGAGCGGGCCCTGGGCATACTGCAGCA
GCCCTATGGAAGAGTGGCCAGACTGTTACCTGGGTTCCTATCTTCTCACTAGGCAAGTCTTGAGGC
CTGGGCCTCTACCTAACCCCCCTACCAGAACTGTTGAGCCAGTAGCAACTCAGCCACTCCCTGGAGAGAGCCTC
CAGGGGCAACTGAAAGCCTCTCTGCCACTGCTTCTGCAGTGGAAGTGTCTTGCTACCCTCAGACTGATGAAGGA
GCTAACACCCTTATCTACACCTTCAACAAGCTTTAATTGACCAAAGCCCATCTCTCATGGGTCTACACACTCCC
CACTGCTCATGACAGGGAACCCCTGGATTGGCCCCACAGCACGAATTCTCTATCCTGATTGCTGATTGCAGTAA
ACAGTTGCTGTATTCTCCAGGGGTGGTGGAACTCTGAGGAGACAAACAAAAGACCCTTGGCTACAACCACTACTA
ATGTCCCTTCTCTTCTGCCTCAAAGTTAGGAAAGAAATATAAACTGAGATTGCCCCAGAGCTGCAGTGGGCA
GCCTAGGAGTGCCAAGCCATGACCTACAGCCAGCACTCAAGGGGGAGAGAAGCACATTTTCAGATCATTGAGAGG
GAACATGGCTGCAACTGTAAGGAAACATAGGGGAGCCACATGACCAAGCAAGAGTCTACCAACTGACCAGTAAGC
CCAAGTGCCACCTACTGGATCACATCCCAAAGCTTCAGCATCAAAAAATACCCTACTAATATACTCCCCTCTGAAA
CCAGAAATGAGAAGTCAGCTTCAAATAAAGACCCTGCACAAAGCCTCAGCCTGGTGAAAACATCCGAAAATAAGT
CTACGGACTGTACTCAATCTACACTGCAATTAAAGGAAAAACCCATAGGTGGAAATGAGAAGAAACCAATGCAAGA
ACTCCAGTAACTCAAATGGCCTCTGTGTCATATGTCTTCTAACAACCACACCAGTTCTCCAACAAGAGTTCTTA
ACCTGGATGAAGTGTCTGGAATTACATAAATATAATTCAGAATATGGATAGGAAAAAAATCATCAAGACTCAGG
AGAATGGCAAACCCCAATCCAAGGAAAATAAGAATAACAGTAAAGTGTTACAGGAGCTGAAGGATAAAGTAGCTG
GTATAATAAAAAAGAACCTAACCGATCTGAAAGCGCCGAAGAACACAATACAAGAATTCCACAATGCAATCACAA
GTATTAACAGCAGAAAAAAAACCTGAGGAACGAATCTCAGAACTTGAAGATTGGTTCTCTAAAATAAGATGGAC
AAAAAAAAAAAAAAAAAAAA

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FIGURE 1390

MLVNELNHSKEKECQYEKEKAEREVAVRQLQQKRDDVLNKGSAKALLDASSRHCTYLENGMQDSRKKLDQMRSQ
FQEIQDQLTATIRCTKEMDGDGTQKLEVEHVMMRKIIKKQDDQIERLEKILQHSSLMLQVFES

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FIGURE 1391

GCCCCGAGCAGGAGCCGGTGCGAGCGGAGCAGAGCCGAGGTCGGGGCCGCGAGCGGAGCCGGCTGAGCGGGCGC̃C
GAGCTCCCGCCATGCCCCGGAACACGCTGTCCTCGCGCTTCCGCCGGGTGGACATCGACGAATTTGACGAGAACA
AATTTGTGGACGAGCAGGAGGAGGCGGCGGCGGCGGCGGCGGAGCCAGGCCCGGACCCGAGCGAGGTGGACGGGC
TCCTGCGGCAAGGGGACATGCTTCGGGCATTCCATGCAGCCTTGCGGAACTCTCCCGTCAACACCAAGAATCAAG
CTGTGAAGGAGCGAGCCCAGGGCGTGGTGCTGAAAGTGCTCACAACTTCAAGAGCAGTGAGATTGAGCAGGCTG
TGCAGTCACTGGACAGAAACGGCGTTGACTTGTTAATGAAGTACATTTATAAAGGCTTTGAGAAGCCACAGAAA
ATAGCAGCGCAGTGTACTCCAGTGGCAGCAAAAAGGCCTTAGCAGTAGGAGGACTAGGCTCCATTATAAGAGTTC
TTACAGCAAGAAAGACTGTTTTAAAAAAAAAATAAAAAAGACTCATGTTACCTTGAGAAGAATTCTGGATGCCAGGCT
GGTGAAGAAGGGATTGACAATGGACCATCTTCCTAGGAACTCCCAAGTAACTATTTTCAGGACATGTATCTGCTG
AAATGTATTTTATTTTCAAGGTGGAGGGGAAAAATCGTCTGTTTCCTAAATCCTGTTTAGGATCTGATAGTCTATG
CCTTTGTCTCCGAGTACTGCAGAACTGACATTTTGACGGTCTACCAGCGTGGCGGCTGGTGTGGTCAGATGCAC
CTGTGTGCAC TGGGGGAGGGATGGTTTGGGCAGGTGCAGATCCAAGGGCTGTGGTAAACGGGAGAGCTTGTGTTT
TTGAAGTGGA¹AAAAAACC²CAAGAGTTTGTACAGACATCCTGTCTTCCAGAGAAGGTGGACACTCTTGGGCTCAT
TGTAAGTGCCTGCTGCATCAATAAAGCTCTTGGCTTATTAGTCTATACAAAAAAAAAAAAAAAAAAAA

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FIGURE 1392

MARNTLSSRFRRVDIDF DENKFVDEQEEAAAAAEPGPD PSEVDG LLRQGD MLRAFHAALRNSPVNTKNQAVKE
RAQGVVLKVL TNFKSSEIEQAVQSLDRNGVDLLMKYIYKGF EKPTENSSAVLLQWHEKALAVGGLGSIIRVLTAR
KTV

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FIGURE 1393

ATAAAAACCGTCCTCGGGCGCGGCGGGGAGAAGCCGAGCTGAGCGGATCCTCACACGACTGTGATCCGATTCTTT
CCAGCGGCTTCTGCAACCAAGCGGGTCTTACCCCCGGTCTCCGCGTCTCCAGTCCTCGCACCTGGAACCCCAAC
GTCCCCGAGAGTCCCCGAATCCCCGCTCCCAGGCTACCTAAGAGGATGAGCGGTGCTCCGACGGCCGGGGCAGCC
CTGATGCTCTGCGCCGCCACCGCCGTGCTACTGAGCGCTCAGGGCGGACCCGTGCAGTCCAAGTCGCCGCGCTTT
GCGTCTTGGGACGAGATGAATGTCTTGGCGCACGGACTCCTGCAGCTCGGCCAGGGGCTGCGCGAACACGCGGAG
CGCACCCGAGTCAGCTGAGCGCGCTGGAGCGGCGCCTGAGCGCGTGCGGGTCCGCCTGTCAGGGAACCGAGGGG
TCCACCGACCTCCCGTTAGCCCCCTGAGAGCCGGGTGGACCCTGAGGTCTTTCACAGCCTGCAGACACAACCTCAAG
GCTCAGAACAGCAGGATCCAGCAACTCTTCCACAAGGTGGCCCAGCAGCAGCGGCACCTGGAGAAGCAGCACCTG
CGAATTCAGCATCTGCAAAGCCAGTTTGGCCTCCTGGACCACAAGCACCTAGACCATGAGGTGGCCAAGCCTGCC
CGAAGAAAGAGGCTGCCCCGAGATGGCCCAGCCAGTTGACCCGGCTCACAATGTGAGCCGCTGCACCGGTGCCC
AGGGATTGCCAGGAGCTGTTCCAGGTTGGGGAGAGGCAGAGTGGACTATTTGAAATCCAGCCTCAGGGGTCTCCG
CCATTTTGGTGAAGTGAAGATGACCTCAGATGGAGGCTGGACAGTAATTCAGAGGCGCCACGATGGCTCAGTG
GACTTCAACCGGCCCTGGGAAGCCTACAAGGCGGGGTTTGGGGATCCCCACGGCGAGTTCTGGCTGGGTCTGGAG
AAGGTGCATAGCATCACGGGGGACCGCAACAGCCGCCTGGCCGTGCAGCTGCGGGACTGGGATGGCAACGCCGAG
TTGCTGCAGTTCTCCGTGCACCTGGGTGGCGAGGACACGGCCTATAGCCTGCAGCTCACTGCACCCGTGGCCGGC
CAGCTGGGCGCCACCACCGTCCCACCCAGCGGCCTCTCCGTACCCTTCTCCACTTGGGACCAGGATCACGACCTC
CGCAGGGACAAGAACTGCGCCAAGAGCCTCTCTGGAGGCTGGTGGTTTGGCACCTGCAGCCATTCCAACCTCAAC
GGCCAGTACTTCCGCTCCATCCCACAGCAGCGGCAGAAAGCTTAAGAAGGGAATCTTCTGGAAGACCTGGCGGGGC
CGCTACTACCCGCTGCAGGCCACCACCATGTTGATCCAGCCCATGGCAGCAGAGGCAGCCTCCTAGCGTCTTGGC
TGGGCCTGGTCCCAGGCCACGAAAGACGGTGACTCTTGGCTCTGCCCAGGATGTGGCCAAGACCACGACTGGA
GAAGCCCCCTTTCTGAGTGCAGGGGGGCTGCATGCGTTGCCTCCTGAGATCGAGGCTGCAGGATATGCTCAGACT
CTAGAGGCGTGGACCAAGGGGCATGGAGCTTCACTCCTTGCTGGCCAGGGAGTTGGGGACTCAGAGGGACCACTT
GGGGCCAGCCAGACTGGCCTCAATGGCGGACTCAGTCACATTGACTGACGGGGACCAGGGCTTGTGTGGGTGCGAG
AGCGCCCTCATGGTGTGCTGTTGTGTGTAGGTCCCCTGGGGACACAAGCAGGCGCCAATGGTATCTGGGCG
GAGCTCACAGAGTTCTTGGAATAAAAGCAACCTCAGAACACTT

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FIGURE 1394

MSGAPTAGAALMLCAATAVLLSAQGGPVQSKSPRFASWDEMNVLAHGLLQLGQGLREHAERTRSQLSALERRLSA
CGSACQGTEGSTDLPLAPESRVDPEVLHSLQTQLKAQNSRIQQLFHKVAQQQRHLEKQHLRIQHLSQFGLLDHK
HLDHEVAKPARRKRLPEMAQPVDPAHNVSRLHRLPRDCQELFQVGERQSGLFELIQFQGSPPFLVNCKMTSDGGWT
VIQRRHDGSVDFNRPWEAYKAGFGDPHGFEWLGLEKVHSITGDRNSRLAVQLRDWDGNAELLQFSVHLGGEDTAY
SLQLTAPVAGQLGATTVPFSGLSVPFSTWDQDHDLRDKNCAKSLSGGWFFGTCSHSNLNGQYFRSIPQQRQKLK
KGIFWKTRGRYYPLQATTMLIQPMAAEAAS

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FIGURE 1395

GTCGACGAGAGAGAGAGAGAGAGAGAACTAGTCTCGGGGGGCCAAAGGGAAAGAAGAAGAACGGAAGGAACAGAG
GGGGCAAAGCCAACAACCCCCCGTATTTGCCCCCGAGGCTGAAGATGGAAACATTGAATATAAATTGAAGCTGG
TGAATCCATCCCAGTACCGCTTTGAGCACCTGGTGACACAAATGAAGTGGCGGCTCCAGGAGGGACGTGGTGAGG
CCGTCTACCAGATTGGGGTAGAGGACAATGGGCTGCTGGTGGGGCTGGCTGAGGAGGAAATGCGAGCTTCGCTCA
AGACCTGCACCGGATGGCAGAGAAGGTTGGGGCAGACATAACCGTTCTTCGAGAGCGAGAAGTGGATTATGATA
GCGACATGCCCCGGAAGATCACCGAGGTGCTAGTACGAAAGGTCCCTGACAACCAACAGTTCCTAGACCTCCGTG
TGGCCGTCTTGGGGAATGTGGACTCTGGGAAGTCAACTCTGCTTGGAGTCTTGACCCAGGGAGAGCTGGACAATG
GGCGGGGCCGGGCTCGGCTCAACCTTTTCCGCCACCTGCATGAGATTGAGTCTGGCCGAACCTCCAGCATCAGCT
TCGAGATCCTGGGCTTTAACAGCAAGGAAGAGGTGGTGAATTACAGCGACTCACGGACAGCAGAAGAGATCTGTG
AGAGCAGCTCCAAGATGATCACCTTCATCGACCTGGCAGGCCACCATAAGTACCTACACACCACCATCTTTGGCC
TCACATCATACTGCCCCGACTGCGCCCTGCTCCTCGTCAGTGCCAACACTGGGATTGCTGGCACCACAAGGGAAC
ATCTGGGGCTGGCCCTGGCCCTGAAAGTGCCCTTCTTCATCGTGGTCAGCAAGATCGACCTATGTGCCAAGACCA
CAGTGGAGAGGACAGTACGCCAGCTGGAGCGGGTCTCAAGCAGCCTGGCTGCCACAAGGTCCCCATGCTGGTCA
CCTCTGAGGATGATGCCGTCACTGCTGCCCAGCAGTTTGCTCAGTCACCCAATGTACCCCCATCTTCACATTGT
CCAGTGTGTCTGGAGAGAGTCTGGACCTCCTCAAAGTCTTTCTGAATATTCTGCCACCACTCACCAACAGCAAAG
AGCAGGAGGAACATCATGCAGCAGCTGACGGAGTTCAGGTGGATGAAATCTACACAGTACCAGAGGTGGGGACTG
TTGTTGGAGGAACACTTTCCAGTGGGATTTGCCGTGAGGGGGACCAGCTGGTGGTGGGCCCCACGGATGATGGCT
GCTTCCTGGAGCTGAGAGTATGCAGCATCCAGCGCAACCGCTCTGCCTGTCTGTGCTGCGAGCTGGTCAGGCTG
CTACACTGGCGCTTGGGGACTTTGACCGTGCCTGCTTCGCAAGGGCATGGTGATGGTGAGCCCGGAGATGAATC
CTACCATCTGCTCGGTGTTTGAGGCAGAGATAGTCTTACTGTTCCATGCCAACACCTTCCGACGAGGATTCCAGG
TGACAGTACACGTGGGCAACGTACGTACAGACGGCAGTGGTGGAAAAGATCCATGCCAAGGACAAACTGCGGACAG
GCGAAAAGGCAGTGGTACGTTTCCGCTTCTGAAACACCCAGAGTACCTGAAGGTGGGCGCCAAACTGCTGTTCC
GGGAGGGTGTACCAAGGGCATCGGCCATGTCACTGATGTACAAGCCATTACAGCAGGAGAAGCCCAGGCCAACA
TGGGCTTCTGAACCTTCAGGCAGGGACAGTTCTATTGCTGTCCCTACAATATATAAGGTGACTTCTGGCCATGC
TGCCCTGCCATTGGCGGCTCTGTGTGTTAATAGGCTAGGGAGAGAGGGGTGCTGTCTGCCACTTGCTCCCTGCCA
ACTTTCTGGAGAGGTGCCAAACTTGGTGTGGCCAGGAAAGGGCAGTCTGAGGGAGAAGACAGGATTACAGGGCAG
TGCTCCGAAGCTGTGTGCTCACCTGGTTGGCTCATCAAACCTGGCAACCCTGTGGCCTGTCTGCCGGAGCTGACT
GGATCCACTCATCAATTCTTCGTCCCCACTACTAAGACTGGGCATGTTTTGCTGGTGTGGTCTCTGCCTTCAGG
AATGGTCACAACAGGGGGTAGCCCTCAAAGCACTCCTTTTTCTATACCTCTTCTCAAGGCCATGTAAGTTGCC
ATCTCTACCTGGCTGTGGACAAAAGGTTATCTGCTCTTGGCCATCTGGTGGTGGTGGCGGCCAGAGTCTGAAGA
AATGGCACAGGGACAGTGAATGGTAGTGTGGCCACCCTGTGCTGAGGCCTGAGGCCTCTTCTCAGCTTTATCTC
CCTTTCTTCACTCAAGGGCCATTTCCTCAGTCCCTATCTCCCCCATCCCCCTCCCGGCTTATAGGCCCCACAGGT
GCTATTTGTTGTGCTGGCCAGGCGTGGGGCTACCAAGCAAAGGCTTGGCATATACCAAAGGCCAGCTGCATGCC
CATCAGTCTGGTCTTTTTCTCTGCGGTCACTGTTGGCTTTTCACTGCTGGATCAAATGTTTTACTTTCCAGACTGG
TGGCATCTGAGTTCCCCATCTTACCCTCTCACCCCACTTTCTGCCCCACCTAAACCCTCGTTTTAGTAATTTGT
AGTGACTGTTCCCTTCCCTCTGTTGCAGGGAACCAGGAGGAAAGGGAAAGATGTTGCCATATTTCTACTCTTTA
GGCATGGACTCTCCTTTCCCTTTGTTAGTGTCTGGGTTCCTATGGACTCAGGGATTTGTTGGCTAAGGTTTCTC
TGTGCATATATATATATATACATATGTATATATATTTAAATACACATATATATTGTACAGAATAAAAATGTTTTA
TTG

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FIGURE 1396

MKWRLQEGRGEAVYQIGVEDNGLLVGLAEEEMRASLKT LHRMAEKVGADITVLREREVDYDSDMPRKITEVLVRK
VPDNQQFLDLRVAVLGNVDSGKSTLLGVLTQGE LDNGRGRARLNLF RHLHEIQSGRTSSISFEILGFNSKEEVVN
YSDSR TAE EICESSSKMITFIDL AGHHKYLHTTIFGLTSYCPDCALLVSANTGIAGTTREHLGLALALKVPFFI
VSKIDLCAKTTVERTVRQLERVLKQPGCHKVPMLVTSEDDAVTAAQQFAQSPNVTPIFTLSSVSGESLDLLKVF
LNILPPLTNSKEQEELMQQLTEFQVDEIYTVPEVGT VVG GTLSSGICREGDQLVVGPTDDGCFLELRVCSIQNR
SACRVLRAGQAATLALGDFDRALLRKGMVMVSP EMNPTICSVFEAEIVLLFHATTFRRGFQVTVHVG NV RQTAVV
EKIHAKDKLRTGEKAVVRFRFLKHPEY LKVGAKLLFREGVTKGIGHVTDVQAITAGEAQANMGF

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FIGURE 1397

CTGCACAGGGAGTTTGTCTTGTGCAAACAATTTCCAAGGCAGCGTTTTCTTCCCTGCCTGGGAGTGCAGGGCTCA
GCGCCTTCACTTTGGAACTGACTCAGAGACCTAAAGAAGCCACCTGGCCAGCGGGAAGGGGGGCGCCGCCGCC
TCCCGGTTTTGGGCAGCCCTGGCCAGCTCCCTGTGGCCTTGGAGGACTTCCACCGGGCAGGCGTTCCCATGATGC
CAGGCTACCAGGCGCGGGGATTCTCTGCAGGCCGGCGCTGCTTTTTCTTAGAACCCCTTTCTAGAAAAGTACACC
TGGAGGTTTTGCTTCAAAGAGAGGAGAGGCAGCAGCATGGCGAGTGTCTGTCCCAGCGCCTTGGAAGCGGTCC
CTCTGGGAGCCCGGGTGTGGGACCCAGTGCCTCGGAGGGGCCCTCGGCTGCCCCACCCTCGGAGCCACTGCTA
GAAGGGGCGCTCCCCAGCCTTTACCACCTCTGATGACACCCCTGCCAGGAGCAGCCCAAGGAAGTCCTTAAG
GCTCCAGCACCTCGGGCCTTCAGCAGGTGGCCTTTACGCCTGGGCAGAAGGTTTATGTGTGGTACGGGGGTCAA
GAGTGCACAGGACTGGTGGAGCAGCACAGCTGGATGGAGGGTCAGGTGACCGTCTGGCTGCTGGAGCAGAAGCTG
CAGGTCTGTGTCAGGGTGGAGGAGGTGTGGCTGGCAGAGCTGCAGGGCCCTGTCCCCAGGCACCACCCCTGGAG
CCCGGAGCCCAGGCCCTGGCCTACAGGCCCGTCTCCAGGAACATCGATGTCCCAAAGAGGAAGTCGGACGCAGTG
GAAATGGATGAGATGATGGCGGCCATGGTGTGACGTCCCTGTCTGCAGCCCTGTTGTACAGAGTCTCCCGGG
ACCGAGGCCAACTTCTCTGCTTCCCGTGGCGCCTGCGACCCATGGAAGGAGAGTGGTGACATCTCGGACAGCGGC
AGCAGCACTACCAGCGGTCACTGGAGTGGGAGCAGTGGTGTCTCCACCCCTCGCCCCCACCACCCAGGCCAGC
CCCAAGTATTTGGGGGATGCTTTTGGTTCTCCCCAACTGATCATGGCTTTGAGACCGATCCTGACCCTTTCCTG
CTGGACGAACCAGCTCCACGAAAAAGAAAGAACTCTGTGAAGGTGATGTACAAGTGCCTGTGGCCAACTGTGGC
AAAGTTCTGCGCTCCATTGTGGGCATCAAACGACACGTCAAAGCCCTCCATCTGGGGGACACAGTGGACTCTGAT
CAGTTCAAGCGGGAGGAGGATTTCTACTACACAGAGGTGCAGCTGAAGGAGGAATCTGCTGCTGCTGCTGCTGCT
GCTGCCGACAGCACCCAGTCCCTGGGACTCCCACCTCCGAGCCAGTCCCACCCCCAGCATGACTGGCCTGCCT
CTGTCTGCTCTTCCACCACCTCTGCACAAAGCCAGTCTCCGGCCCGAAGATCCTGGCCCGGAGTCTCCTCTG
CCCTCAGGGGCTCTCAGCAAGTCAGTCTCTGGGTCTTCTGGCACATTCAGGCAGATCATGCATACCAGGCTCTG
CCATCCTTCCAGATCCCAGTCTCACCACACATCTACACCAGTGTGAGCTGGGCTGCTGCCCCCTCCGCCGCTGC
TCTCTCTCTCCGGTCCGGAGCCGGTCTGCTAAGCTTCAGCGAGCCCCAGCAGCCAGCACCTGCGATGAAATCTCAT
CTGATCGTCACTTCTCCACCCCGGGCCAGAGTGGTGCCAGGAAAGCCCGAGGGGAGGCTAAGAAGTGCCGCAAG
GTGTATGGCATCGAGCACCGGGACAGTGGTGCACGGCGTGCCGGTGGAAAGAAGGCCTGCCAGCGCTTTCTGGAC
TGAGGCTGTGCTGCAGGTTCTACTCTGTTTCTGGCCCTGCCGGCAGCCACTGACAAGAGGCCAGTGTGTACCAGC
CCTCAGCAGAAACCGAAAGAGAAAGAACGGAAACACGGAGTTTGGGCTCTGTTGGCTAAGGTGTAACACTTAAAG
CAATTTTCTCCCATTTGTGCGAACATTTTATTTTTTAAAAAAA

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FIGURE 1398

MASVLSRRLGKRSLLGARVLGPSASEGPSAAPPSEPLLEGAAPQPF TTSDDTPCQEQPKEVLKAPSTSGLQQVAF
QPGQKVYVWYGGQECTGLVEQHSWMEGQVTVWLLEQKLQVCCRVEEVWLAELQGFCPQAPPLEPGAQALAYRPVS
RNIDVPKRKSDA VEMDEMMAAMVLTSLSCSPVVQSPPGTEANFSASRAACDPWKESGDISDSGSSTTSGHWSGSS
GVSTPSPPHPQASPKYLGDAFGSPQTDHGFETDPPDFLLDEPAPRKRKNSVKVMYKCLWPNCGKVLRSIVGIKRH
VKALHLGDTVDSQDFKREEDFYYTEVQLKEESAAAAAAAAAAGTPVPGTPTSEPAPTPSMTGLPLSALPPPLHKAQ
SSGPEHPGPESLPSGALSKSAPGSFWHIQADHAYQALPSFQIPVSPHIYTSVSWAAAPSAACSLSPVRSRSLSF
SEPQQPAPAMKSHLIVTSPPRAQSGARKARGEAKKCRKVYGIEHRDQWCTACRWKKACQRF LD

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FIGURE 1399

GGATGAAAGTGATTTAATTCATTTTTAGAAATTTTTTTTTGTTTTGTTTTAGCAACATGCTGAACAACATAATTTA
CTTTAAAAATAAGCCAGTTAAACAAAGGACGCTAAGCCCAAGTGGGGGGCAATATTAGTCAGGATCTTTGGGGT
CTAATTCAGACCAACTTTTCAGAAGCACTTCTTTGTCTCTGTTCTCACCTCTGCTGTCCCTCTCTTCCCTCATCC
CCTAAGAGAGACAAAGATAAAAGCCACCTGCATCCCTAAGTCTTACTGAGATCAGCCACCCAGGGGAGAGAAA
CTGGATCTACTTACAGCCACCCCTGTTTCCATCCATATACTTACTTCCCCCAATTTGCATGTGATTATGGAAC
AAGTCATGCTCATGAAAGCAACTGTAAATAAAAGGTTATGGAGTAGTTCAGCAACTTCTTCACAGCCAGCTTTG
TGGAGCTGGGGAGGACTTAGGGCCCATTTGGAGTCTCTTATGTGTACAGCTTCAGGGCTGTCCCTTCAGTTTGAT
TTAAGCAATGCCTCACTTCATAGCTTAGGGGGTAAGGATTCCATTACAGGTAGGTTGTCTAAAGGAACATAATGGG
ACCTCTCAGTGAAATTAGCTGACCAGATTTTAGGAAATCTTTTTAATTTCTATGATTTTCCTTCTCACATTTTGAA
ATGGTAAATTTGACTGGAAATAATTTTTCTTGGTGCCCTATTGGTTTTCTTGCAAACCTTTCTCATATTTTCTC
ATGACCATTGCCAGTGACCAAGGCCCATGTGTGTGTTGTGTGTAATTGTGGGCATGTACAAGCTTAAATAACGTG
CCGACAGCACTGTTTCAAAGTTGGTATTCAATTAGGCTGTTGCCTCCTGGGCTGGAGCTGCGCTAATCCTGACACC
GGCTGCCAGGAGAAAACCTCATGGATCACACACCAAACCTTAATAACAGCATCCGTGACCTGCACCTCTCCAGTAC
AGAAATGGGAACCCAGAGCTAGGAAATGTAGTTGTATATTTAATGAACTGCTACCCAGCCAAAGAAGCTTCTT
TCATTTTGTGCTCTACAGAAAGCCCAAGGGGGTAGGAGGGACAGAGCTTTGAATAACTGCTTTCTAACACTAA
ATGTGGCCAACAGGACAGAGCACATCACACGTATAGGCAGGTGTGAGGGACAGTGGCTAAGAATTGCCTGCTCCC
TCTGCATGCTCTTTCTTGTTTCCAAAGTCCAATCAAGTGATCCTGGGAAACAAATCTGTCTGGATTGCGGAGGGT
GGTTCTGAAAGAACTGCCAAGACGTTAAAGAAGGGTGAAGAGTAGGCAGAAATATAAGTAGCTAACCTGAGTCAAG
ACTCTCAAAGCTAGCAGCCTGATGACAATAGGATTTATTTAGCCAGGATAGTGTCTGTCTGTGAGTGCATCAT
TTTAAGACAGTATGACTTCATGTTGTTACAACTATGTATAGTATGTATGTTTTGTGGGTTGTATATATACATAA
TATATATTATATATATATATATGAGAGATTTGGTGACTTTTGATACGGGTTTGGTGCAGGTGAATTTATTACTGAGC
CAAATGAGGCACATACCGAGTCAGTAGTTGAAGTCCAGGGCATTGATACTGTTTATGATTTCCATATATGTATA
GTGCCTATCCCATGCTGTAGTCACTGTTATGTTAAATCCAGAAGTTACACTAGAGCCAGCGATACTTTATTTGTA
GACAATCAATTTGAATCCATATGTTATTACTGGCAGATGATACATGATTACAGTTCTGAATCTGTAACACTTACA
AAAGGAAACCCAGAGCAGCTTGATGAGTTTTTGTCTGCTTCGTTCTGGGAGTCAGTAGAAACAGCAGTTGTA
TGTTGGTTATGTTAGTCTCAAGATACTTAATTTGTTGACCTTACTTCAGAAAAATTTGTATGTATTATATTTGTG
GGAAGGTAAATAATCATTTGAGATTTTATCAAATATGAAGATTAGTTATTTATGAAAAACAAAGAAATGTCTA
TTTTTCTTTGTTCCCAATTAATGTAGATAAATTTTAAATGCATTAAAGTAATGGTCCGGAAAAA

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FIGURE 1400

METSHAHESNCKIKGYGVVQQLHSQLCGAGEDLGPIGVSYVYSFRAVPFSLILSNASLHSLGGKDSIQVGCLKE
LMGPLSELADQILGNLENFYDFPSHILKW

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FIGURE 1401

GCACGAGGTGTTCTATTTACATGGCCTGTGTAAATCTCCATTGGGAAGTCATGCCTTCTAAAAAGATTCTTATTT
GGGGGAGTGGGCAAAATGTTGATTATTTTCTAATGCTTTGTAGCAAAGCATATCAATTGAAAAGGGAATATCAGC
ACCTTCCTAGTTTGGGATTTGAAAAGTGGAATTAATTGCAGTAGGGATAAAGTAGAAGAAACCACAAATTATCTT
GTGCCTGAAATCCATTAAAGAGGCCTGATAGCTTTAAGAATTAGGGTGGGTTGTCTGTCTGGAAGTGTTAAGTGGA
ATGGGCTTTGTCTCCAGGAGGTGGGGGAATGTGGTAACATTGAATACAGTTGAATAAAAATCGCTTACAAAACCTC
ACACTCTCACAAATGCATTGTTAAGTATGTAAAAGCAATAACATTGATTCTCTGTTGTACTTTTTTGTAACTAATT
CTGTGAGAGTTGAGCTCATTTTCTAGTTGGAAGAATGTGATATTTGTTGTGTTGGTAGTTTACCTAATGCCCTTA
CCTAATTAGATTATGATAAATAGGTTTGTCAATTTTGCAAGTTACATGTTTTAAACATTTATCAATGAAGTCATCC
TTTAGACTTGTAATCGCCACATTGTTTCATTATTTCAGTTTCCTCTGTAAAGGGATCTTGAGTTGTTTTAATTTTT
TTTTCTGCATCTGAATCTGCATGATTTCCAAACCCGTACCATCTGAATTTTGCATTTTAGCACTTGCCTATTA
CTCAGCAGCAGTAACATGGTAACACTTAAATGGTACTCGGGGACCTCCAAAGACTAAACTGACAAGCCTTCAAG
GAGCCCAGGGGTAAAGTTAAGTTGTCACGGCATGGTTTAATCCCTTCTTTACACTTGTGTAAATTTTCAAGTTACTG
GTCATAGAAGGCTTTCAATGTTGAGTGGCCTTTTATTAACATGTTTATGGTACTGCATAGATACGGGTATTTATT
TTACCCTAAGAAGATTTTGAAGTTTAAAAGTACTTAAACTATTTGGCAAAGATTTGTTTTTAAAAATCTATTTGG
TCAATCTAAATGCATTCATTCTAAAAAATTTTTTGAACCAGATAAATAAAATTTTTTTTTGACACCACAAAAAA
AAAAAAAAAAAAA

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FIGURE 1402

MACVNLHWEVMP SKKILIWGSGQNVDFLMLCSKAYQLKREYQHLPSLGFEKWN

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FIGURE 1403

ATGGAGGCCCGCCCGGGACTATGCAGGAGCCCTCATCAGGCCCTGACATTTATGGGATCACAGACTAAGCGAGTC
CTGTTCACCCCGCTCATGCATCCAGCTCGCCCTTTCCGGGTCTCCAACCATGACAGGAGCAGCCGGCGTGGGGTG
ATGGCAAGCAGCCTGCAGGAGCTCATCAGCAAGACTCTGGATGCCCTCGTCATCGCTACCGGACTGGTCACTCTG
GTGCTGGAGGAAGATGGCACCGTGGTGGACACAGAAGAGTTCTTTCAGACCTTGGGAGACAACACGCATTTTCATG
ATCTTGGA⁵AAAAGGACAGAAGTGGATGCCGGGCAGCCAGCACGTCCCCACTTGCTCGCCGCCGAAGAGGTCTGGGA
ATAGCGAGAGTCACCTTCGACTTGTACAGGCTGAACCCCAAGGACTTCATCGGCTGCCTTAACGTGAAGGCCACC
ATGTATGAGATGTACTCCGTGTCCTACGACATCCGGTGCACGGGACTCAAGGGCCTGCTGAGGAGTCTGCTGCGG
TTCCTGTCCTACTCCGCCCAGGTGACGGGACAGTTTCTCATCTATCTGGGCACATACATGCTCCGGGTGCTGGAT
GACAAGGAAGAGCGGCCATCCCTCCGGTCACAAGCCAAGGGCAGGTTACGTGTGGATAG

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FIGURE 1404

MEAARDYAGALIRPLTFMGSQTKRVLF TPLMHPARPF RVSNHDRSSRRGVMASSLQELISKTL DALVIATGLVTL
VLEEDGT VVDTEEFFQTLGDNTHFMILEKQKWM PG SQHVPTCSPPKRSGIARVTFDLYRLNPKDFIGCLNVKAT
MYEMYSVSYDIRCTGLKGLLRSLRFLSYSAQVTGQFLIYLGTYMLRVLDDKEERPSLRSQAKGRFTCG

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FIGURE 1405

ACGAGGCTTCATTCCATTTTCTGTTGAGTAATAAACTCAACGTTGAAAATGTCCTTTGTGGGGGAGAACTCAGGA
GTGAAAATGGGCTCTGAGGACTGGGAAAAAGATGAACCCAGTGCTGCTTAGAAGACCCGGCTGGAAGCCCCCTG
GAACCAGGCCCAAGCCTCCCCACCATGAATTTTGTTCACACAAGTCCAAAGGTGAAGAACTTAAACCCGAAGAAA
TTCAGCATTGATGACCAGGATCACAAAGTACTGGTCCTGGACTCTGGGAATCTCATAGCAGTTCCAGATAAAAAAC
TACATACGCCCAGAGATCTTCTTTGCATTAGCCTCATCCTTGAGCTCAGCCTCTGCGGAGAAAGGAAGTCCGATT
CTCCTGGGGGTCTCTAAAGGGGAGTTTTGTCTCTACTGTGACAAGGATAAAGGACAAAGTCATCCATCCCTTCAG
CTGAAGAAGGAGAACTGATGAAGCTGGCTGCCCCAAAAGGAATCAGCACGCCGGCCCTTCATCTTTTATAGGGCT
CAGGTGGGCTCCTGGAACATGCTGGAGTCGGCGGCTCACCCCGGATGGTTCATCTGCACCTCCTGCAATTGTAAT
GAGCCTGTTGGGGTGACAGATAAATTTGAGAACAGGAAACACATTGAATTTTCATTTCAACCAGTTTGCAAAGCT
GAAATGAGCCCCAGTGAGGTCAGCGATTAGGAAACTGCCCCATTGAACGCCTTCCTCGCTAATTTGAACTAATTG
TATAAAAACACCAAACCTGCTCACTAAAAAAAAAAAAAAAAAAAA

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FIGURE 1406

MSFVGENSEGVKMGSEDWEKDEPQCLEDPA GSPLEPGPSLPTMNFVHTSPKVKNLNPKKFSIHDQDHKVLVLD SG
NLI AVPDKNYIRPEIFFALASSLSSASA EKGSPILLGVSKGEFCLYCDKDKGQSHPSLQLKKEKLMKLAAQKESA
RRPFIFYRAQVGSWNMLESAAHPGWFICTSCNCNEPVGVTDKFENRKHIEFSFQPVCKAEMSPSEVSD

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FIGURE 1407B

TGCAAAAGAAAAACCTACCAATTAAAAAAAAAAAAAAAAAAAA

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FIGURE 1408

MDEGIPHLQERQLEHRDFIGLDYSSLYMCKPKRSMKRDDTKDTYKLPHRLIEKKRRDRINECIAQLKDLLPEHL
KLTTLGHLEKAVVLELTLKHLKALTALTEQQHQKIIALQNGERSLKSPIQSDLDAFHSGFQTCAKEVLQYLSRFE
SWTPREPRCVQLINHLHAVATQFLPTPQLLTQQVFLSKGTGAPSAAGSAAAPCLERAGQKLEPLAYCVPVIQRTQ
PSAELAAENDTDTDSGYGGEAEARPDREKKGAGASRVTIKQEPFGEDSPAPKRMKLDSRGGGSGGGPGGGAAAA
AAALLGPDPAAAAALLRPDAALLSSLVAFGGGGGAPFPQPAAAAAPFCLPFCFLSPSAAAAAYVQPFLLDKSGLEKY
LYPAAAAAPFPLLYPGIPAPAAAAAAAAAAAAAAAAAFAFPCLSSVLSPPEKAGAAAATLLPHEVAPLGAPHPQHHPH
GRTHLPFAGPREPGNPESSAQEDPSQPGKEAP

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FIGURE 1409

GGTGAGTCCGCGTGTGGAAGTCTGTGAGGCGCAGAGGTGGGGCAGGCCGTCTGGCTAGCTAGGCGGCTGGGAGCG
TTTTCGTGGCGGGGAACGGAGGTTGAATTGCCCTGCCTGGGCTCATAGGGAAGGAGGATGTGAAGGAGCTTGTGA
AGGCAGAGGAAGATTATTGAATAATAAAATACAGTTTTGAAAAAATGGATGAAGAACCTGAAAGAACTAAGCGA
TGGGAAGGAGGCTATGAAAGAACATGGGAGATTCTTAAAGAAGATGAATCTGGATCACTTAAAGCTACAATAGAA
GACATTCTATTCAAGGCAAAGAGAAAAAGAGTATTTGAGCACCATGGACAAGTTTCGACTTGGAAATGATGCGCCAC
CTTTATGTGGTAGTAGATGGATCAAGAACAATGGAAGACCAAGATTTAAAGCCTAATAGACTGACGTGTACTTTA
AAGTTGTTGGAATACTTTGTAGAGGAATATTTTGATCAAAATCCTATTAGTCAGATTGGAATAATTGTAACCTAAG
AGTAAAAGAGCTGAAAAATTGACTGAACTTTGAGGAAACCAAGAAAAACATATAACGTCTTTGAAGAAAGCTGTG
GATATGACCTGCCATGGAGAGCCATCTCTTTATAATTCCCTAAGCATAGCTATGCAGACTCTAAAACACATGCCCT
GGACATACAAGTCGAGAAGTACTAATCATCTTTAGCAGCCTTACAACCTTGCGATCCATCTAATATTTATGATCTA
ATCAAGACCCCTAAAGGCAGCTAAAAATTAGAGTATCTGTTATTGGATTGTCTGCAGAAGTTTCGCGTTTGCAGTGT
CTTGCTCGTGAAACTGGTGGCACGTACCATGTTATTTTAGATGAAAGCCATTACAAAGAGTTGCTCACACATCAT
GTTAGTCCTCCTCCTGCTAGCTCAAGTTCTGAATGCTCACTTATTCGTATGGGATTTCTCAGCACACCATTGCT
TCTTTATCTGACCAGGATGCAAAACCCTCTTTCAGCATGGCGCATTTGGATGGCAATACTGAGCCAGGGCTTACA
TTAGGAGGCTATTTCTGCCCACAGTGTGCGGGCAAAGTACTGTGAGCTACCTGTTGAATGTAAAATCTGTGGTCTT
ACTTTGGTGTCTGCTCCCCACTTGGCACGGTCTTACCATCATTTGTTTCCTTTGGATGCTTTTCAAGAAATTCCC
CTAGAAGAATATAATGGAGAAAGATTTTGTTATGGATGTCAGGGGGAATTGAAAGACCAACATGTTTATGTTTGT
GCTGTGTGCCAAAATGTTTTCTGTGTGGACTGTGATGTTTTTGTTTCATGATTCTCTACACTGTTGCCCTGGCTGT
ATTCATAAGATTCCAGCTCCTTCAGGTGTTTGAATTCAGCATGTAGTATACATTGTATGTGTTAAAAAGAAATTT
GCAACTGTGAATAAAAGGACTTCTTTAGAAGAAGCTTCATTTAAAACATGAAAGGATAATCTGACTTAAGAACT
TTTTGCTAAGAAAAGGTAATATTTTATTAAATTTTAAATTTGTGTTGTCACAGAAATACCTGAAATTCAGTAGTA
CTTCATTCAATTAATTTTGTCTTATTATTTTGAAGTTACTGTTTTCAAAGTCATTATGCAGTATGTATAAAC
TTATAAGAATTAAATTGATGTGATAATTTTATGTTTTTATAATTAAATATAGAATCTTTATGATTTATGTTAATT
CATTAAATTTAGTGTAAGAAGAAAGTTAAGTCTGAATGTAAATTCAGTGTAAGATGAAAATTTATCAATACTTATG
GAAATTAGGCTGGGCGCTGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCTGAGGTGGGCGGATCACTTGA
GGTCAGGAGTTCGAGACCAGCCGGGCCAGCATGGTGGAAACCCGTTCACTACTAAAAATACAAGGATTATTAGC
CGGGCCTGGT

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FIGURE 1410

MDEEPERTKRWEGGYERTWEILKEDESGSLKATIEDILFKAKRKRVF EHHGQVRLGMMRHLYVVVDGSRTMEDQD
LKP NRLTCTLKLEYFVEEYFDQNPISQIGIIVTKSKRAEKLTELSGNPRKHITSLKKAVIDMTCHGEPSLYNSLS
IAMQTLKHMPGHTSREVLIIFFSSLTTCDP SNIYDLIKTLKAAKIRVSVIGLSAEVRVCTVLARETGGTYHVILDE
SHYKELLTHHVSPPPASSSSECSLIRMGFPQHTIASLSDQDAKPSFSMAHLDGNTEPGLTLGGYFCPQCRAKYCE
LPVECKICGLTLVSAPHLARSYHHLFPLDAFQEIPLEEYNGERFCYGCQGELKDQHVYVCAVCQNVFCVDCDVFV
HDSLHCCPGCIHKIPAPSGV

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FIGURE 1411A

GGGTAGAGACGGGGTTTCACCGTGTTAGCCAGGATGGTCTGGATCTCCTGACCTCGTGATCCACCCACCTCGGCC
TCCTAAAGTGCTGGGATTACAGACATGAGCCACCGCGCCAGCCCTATTCATCCCTTTTCAAAAGTCAGACCCTA
GGAAGCTGGAGGGAGGTGGGGCATGGTTTTACAGTGAATTTCTGATTTCACTCAGGGTGATAAATCAGACTCTTG
GGGAAGCGGGTGGTGGCTCTGGACAGCAGCAGGAATGGGGATCCAGTTAGCAACAAATCCATGGACCTATGACAG
GCTGAAAGCCACCCCTTCTCCATCTTTGGGAGGTTGCCAATGTCTGATTTAACACTATCCAATGAATGATCATTG
AAAGTAAAAAATAACTATCAACTAGCAGAAAATATAAATGGTAAGCATTAGCACATATTTACATGTTTATATTT
GGCTCTCAGATTGACCTATAAAACAAAGTCTGGGAAATTTCTATATGATCCTGAAAAAATGATACGCTGGTCTGGA
TGGTAGAATAAGTTGGAGAAATGTTTAAGCCAAATGCAGTCTTACCAATGACTTTTTATTTTATTTTATTAATT
TTCAGGATTTTTTGGTATACAGGTGGTTTTTGGTTACATGGAAAAGTTCTTTACTGGTGATTTCTGAGATTTTTAGT
TCACCCCTTATCCTGAGCAGTGTACACTGTTCCCAATATGTAGCCTTTTATCCCTCACCCCTCTAAGTTCAAGA
AGACTATGGTCCTGCAGAAAGCTTTATATGTAATTAACATATCTTTATCTTTATCTTTATAGGCAGTAGACTCAT
CTTTTGAAACAGATTCCATTAAGAGTGAATGTGTACCCTCCCTCTAGCCTTTATTATTACTGTTTTTGCTATTAC
ATGTGTTAGTGTATGTGAATTTAATGCTTAAAAATGTATCCATTGGCTACTATGGCAAAAGGTTGACTCATAAG
AGTTTAGCACGGGTTAAGATCTGAAAGTTTTCTCCAGCCTCTTATCACTGGCGCAGACTTCACAATTCATGGAA
GCCACCAGTGAGATGACATTGCCTCAGGCAGTTACTATTTTTATATTCTATAACTCGAGGAGCTCAGGGTTTCGG
AAATCATTAAACTTTTTTTGTCCTTTTAAAGTTGGAGACAGCAATTGTAGACAGCCTTCCAGTGGGTTATCTTTT
TGTGTCTCCTTACCTGTGGAGAAGCCTATTAGCTGGGATATGTAGTTAAATAGCTATATTTATATATATCCAGGG
CACCCCGAATTCGGGAGAGCTTCCCGGAGTCGACCTTCTGCTGGCTGCTCTGTGACCGCTTCCCGGCTCTGCCC
TCTTGGCCGAAGTGCCCGCTGCCGGGCGCGGGCCTCAGACAATACAATGGTGGGTGAAGAGAAGATGTCTCTAAG
AAACCGGCTGTCAAAGTCCAGGGAATCCTGAGGAAGATGAAGACCAGAGAAACCTGCAAAAGGAGTCCCTAGA
GACACCTAGTAATGGTCGAATTGACATAAAACAGTTGATAGCAAAGAAGATAAAGTTGACAGCAGAGGCAGAGGA
ATTGAAGCCATTTTTTATGAAGGAAGTTGGCAGTCACTTTGATGATTTTGTGACCAATCTCATTGAAAAGTCAGC
ATCATTAGATAATGGTGGGTGCGCTCTCACAACCTTTTCTGTTCTTGAAGGAGAGAAAAACAACCATAGAGCGAA
GGATTTGAGAGCACCTCCAGAACAAGGAAAGATTTTTATTGCAAGGCGCTCTCTCTTAGATGAACTGCTTGAAGT
GGACCACATCAGAAACAATATATCACATGTTTATTGCCCTCCTCATTCTCTTTATCCTCAGCACACTTGTAGTAGA
TTACATTGATGAAGGAAGGCTGGTGCTTGAGTTCAGCCTCCTGTCTTATGCTTTTTGGCAAAATTCCTACCGTTGT
TTGGACCTGGTGATCATGTTCCCTGTCTACATTTTTCAGTTCCCTATTTTCTGTTTCAACATTGGGCCACTGGCTA
TAGCAAGAGTTCTCATCCGCTGATCCGTTCTCTCTTCCATGGCTTTCTTTTTCATGATCTTCCAGATTGGAGTTCT
AGGTTTTTGGACCAACATATGTTGTGTTAGCATATACACTGCCACCAGCTTCCCGGTTTCATCATTATATTCGAGCA
GATTCGTTTTTGTAATGAAGGCCCACTCATTGTGTCAGAGAGAACGTGCCTCGGGTACTAAATTCAGCTAAGGAGAA
ATCAAGCACTGTTCCAATACCTACAGTCAACCAGTATTTGTACTTCTTATTTGCTCCTACCCTTATCTACCGTGA
CAGCTATCCCAGGAATCCCAGTGTAAAGATGGGGTTATGTGCTATGAAGTTGCACAGGCTTTGGTTGCTTTTT
CTATGTGTACTACATCTTTGAAAGGCTTTGTGCCCCCTTGTTTCGGAATATCAAACAGGAGCCCTTCAGCGCTCG
TGTTCTGGTCCATATGTGATTTAACTCCATCTTGCCAGGTGTGCTGATTCTCTTCTTACTTTTTTGCCTTTTT
GCACTGCTGGCTCAATGCCTTTGCTGAGATGTTACGCTTTGGTGACAGGATGTTCTATAAGGATTGGTGGAATC
CACGTCATACTCCAACATATATAGAACCCTGGAATGTGGTGGTCCATGACTGGCTATATTACTATGCTTACAAGGA
CTTTCTCTGGTTTTTCTCCAAGAGATTCAAATCTGCTGCCATGTTAGCTGTCTTTGCTGTATCTGCTGTAGTACA
CGAATATGCCCTTGGCTGTTTGCTTGAGCTTTTTCTATCCCGTGTCTTCTGCTCTTTCATGTTCTTTGGAATGGC
TTTCAACTTCATTGTCAATGATAGTCGGAAGGCGGATTGGAATGTTCTGATGTGGACTTCTCTTTTCTTGGG
CAATGGAGTCTTACTCTGCTTTTATTCTCAAGAAATGGTATGCACGTCGGCACTGTCTCTGAAAAATCCCACATT
TTTGGAATATGTCCGGCCACGTTCCCTGGACTTGTGCTTACGTGTTTTAGAAAGCTTGGACTTTGTTTCTCTCTGT
CACTGAAGATTGGGTAGCTCCCTGATTGAGGCCAGCTGTTTCCAGTTGTTACTGAAGTTATCTGTGTTATTTGG
ACCACTCCAGGCTTTACAGATGACTCACTCCATTCTAGGTCACCTGAAGCCAAACTGTTGGAAGTTCACTGGAG
TCTTGTACACTTAAGCAGAGCAGAACTTTTTTGTGGGGCTGGGTGGGGGAGAAGACCGACTAACAGCTGAAGT
AATGACAGATTGTTGCTGGGTCATATCAGCTTTATCCCTTGGAATTATATCTGTTTTGTTTCTTGACTCTGTCC
AATCAGAGAATAAACATCATAGTTTCTTGGCCACTGAATTAGCCAAAACACTTAGGAAGAAATCACTTAAATACC
TCTGGCTTAGAAATTTTTTCATGCACACTGTTGGAATGTATGCTAATTGAACATGCAATTGGGGGAAGAAAAATG
TAGAATGATTTTTGCTATTTCTAGTAGAAAGAAATGTCTGTTTTCCAAAGATAATGTTATACATCCTATTTTGT

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FIGURE 1411B

AATTTTTTTGAAAAAAGTTCAATGTTTCAGTTTTTCCTTAGTTTTTACCTTGTTTTCTCTATAGGTCATGATTTCTG
TGAAGCAAAAAGATGCCTTTTACCATGAATTCTTGAGTTTACATCAATAATATTGTATATTAAGGGGATCAGAAG
TAGGAAGGAAAAAATAAGAGATAGCAGAGGAAAAAGAAAAACATTTCTCTTATAACTTCTGAAGTAATTTGTAA
AAAAGATTTGTAGAGTCAATCATGTGTTTTAAATTATTTTATCACAACTTAACATGGAAGATATTCCTTTTAAAC
TTTGTGGTAACTTCCTTTGAAGTTATTTAGAAATATCCTTTGGAACAATTATTTTATTGTCTAATAAATATTGACT
TCTCTTGAATTATTTTGCAGACTAGTGAGTCTGTAC

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FIGURE 1412

MVGEEKMSLRNRLSKSRENPEEDEDQRNPAKESLETPSNGRIDIKQLIAKKIKLTAEAEELKPFFMKEVGSHFDD
FVTNLIKESASLDNGGCALTTFVLEGEKNNHRAKDLRAPPEQGKIFIARRSLDELLEVDHIRTIIYHMFIALLI
LFILSTLVVDYIDEGRLVLEFSLLSYAFGKFPTVVWTWWIMFLSTFSVPYFLFQHWATGYSKSSHPLIRSLFHGF
LFMIFQIGVLGFGPTYVVLAYTLPPASRFIIIFEQIRFVMKAHSFVRENVPRVLNSAKEKSSTVPIPTVNQYLYF
LFAPTIIYRDSYPRNPTVRWGYVAMKFAQVFGCFFYVYIIFERLCAPLFRNIKQEPFSARVLVLCVFNSILPGVL
ILFLTFFAFLHCWLNFAEMLRFGDRMFYKDWWNSTSYSNYYRTWNVVVDWLYYYAYKDFLWFFSKRFSKAAML
AVFAVS AVVHEYALAVCLSFFYPVLFVLFMFFGMAFNFIVNDSRKKPIWNVLMWTSFLGNGVLLCFYSQEWYAR
RHCPLKNPTFLDYVRPRSWTCRYVF

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FIGURE 1413

GCAGTAGAGGCGCGGGGTGCGGAGCTAGGGAGGCCGAGAGCCATGGCGGCGCTATTGGCGGCGGCGGCAGTGCGA
GCCCCGATCCTGCAGGTTTCTTCCAAGGTGAAATCCAGTCCCACCTGGTATTACAGCATCTTCCTTCTCTTCTTCA
GTGCCAACTGTAAAGCTCTTCATTGGTGGGAAATTCGTTGAATCCAAAAGTGACAAATGGATCGATATCCACAAC
CCAGCCACCAATGAGGTCAATTGGTCGGGTCCCTCAGGCCACCAAGGCAGAAATGGATGCAGCCATTGCTTCCTGC
AAACGTGCTTTTCTGCAATGGGCAGACACTTCAGTATTAAGCCGCCAGCAGGTCTTGCTCCGCTATCAACAACCTT
ATTAAAGAAAACCTTGAAAAGAAATTGCCAAGTTAATCACATTGGAACAAGGGAAGACCCTAGCTGATGCTGAAGGA
GATGTATTTTCGAGGCCTTCAGGTGGTTGAGCATGCCTGTAGTGTGACATCCCTCATGATGGGAGAGACCATGCCA
TCCATCACCAAAGACATGGACCTTTATTCCTACCGTCTGCCTCTGGGAGTGTGTGCAGGCATTGCTCCATTCAAT
TTTCCTGCCATGATCCCCCTTGGATGTTTCCCATGGCCATGGTGTGTGGAAATACCTTCCTAATGAAACCATCT
GAGCGAGTCCCTGGAGCAACTATGCTTCTTGCTAAGTTGCTCCAGGATTCTGGTGCCCTGATGGAACATTAAAC
ATCATCCATGGACAGCATGAAGCTGTAAATTTTATTTGCGATCATCCGGACATCAAAGCAATCAGCTTTGTGGGA
TCCAACAAGGCAGGAGAGTATATCTTCGAGAGAGGATCAAGACATGGCAAGAGGGTTCAAGCCAATATGGGAGCC
AAGAACCATGGGGTAGTCATGCCAGATGCCAATAAGGAAAATACCTTGAACCAGCTGGTTGGGGCAGCATTGGA
GCTGCTGGTCAGCGCTGCATGGCTCTTTCAACAGCAGTCCTTGTGGGAGAAGCCAAGAAGTGGCTGCCAGAGCTG
GTGGAGCATGCCAAAAACCTGAGAGTCAATGCAGGAGATCAGCCTGGAGCTGATCTTGGCCCTCTGATCACTCCC
CAGGCCAAAGAGCGAGTCTGTAATCTGATTGATAGTGAACAAAGGAGGGAGCTTCCATCCTTCTTGATGGACGA
AAAATTAAAGTGAAAGGCTATGAAAATGGCAACTTTGTTGGACCAACCATCATCTCGAATGTCAAGCCAAATATG
ACCTGTTACAAAGAGGAGATTTTTGGTCCAGTTCTTGTGGTTCTGGAGACAGAAACATTGGATGAAGCCATCCAG
ATTGTAAATAACAACCCATATGGAAATGGAAGTCCATCTTACCACCAATGGAGCCACTGCTCGGAAATATGCC
CACTTGGTGGATGTTGGACAGGTGGGAGTGAATGTCCCCATTCCAGTGCCTTTGCCAATGTTCTCATTACCGGC
TCTCGATCCTCCTTCAGGGGAGACACCAATTTCTATGGCAAACAGGGCATCCAATTCTACACTCAGTTAAAGACC
ATTACTTCTCAGTGGAAGAAGAAGATGCTACTCTTCTCACCTGCTGTTGTCATGCCTACCATGGGCCGTTAG

AAACAAGTTTGTTTAAGACTGACTCCATCCTGAGTAATCTCCCTTTATTTTTGACCAGCTTCATTGTGTCAGCTTT
GCTCAGATCAGATCGATGGGATTGGAATACATTGTAACATAAAATCTTAAAAAAA

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FIGURE 1414

MAALLAAAVRARILQVSSKVKSSPTWYSASSFSSSVPTVKLFIGGKFVESKSDKWIDIHNPATNEVIGRVPQAT
KAEMDAAIASCKRAFFAWADTSVLSRQQVLLRYQOLIKENLKEIAKLITLQGKTLADAEGDVFRGLQVVEHACS
VTSIMMGETMPSITKDMDLYSYRLPLGVCAGIAPFNFPAMIPLWMFPMAMVCGNTFLMKPSEVPGATMLLAKLL
QDSGAPDGTINIIHGQHEAVNFICDHPDIKAISFVGSNKAGEYIFERGSRHGKRVQANMGAKNHGVVMPDANKEN
TLNQLVGAAFGAAGQRCMALSTAVLVGEAKKWLPELVEHAKNLRVNAGDQPGADLGPLITPQAKERVCNLIDSGT
KEGASILLDGRKIKVKGYENGNFVGPTIISNVKPNMTCYKEEIFGPVLVVLETETLDEAIQIVNNNPYGNGTAF
TINGATARKYAHLDVGQVGVNVPPIPVPLPMFSFTGSRSSFGRDITNFYKGQGIQFYTLKTTITSQWKEEDATLSS
PAVVMPTMGR

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FIGURE 1415

GGATGCTCAATATATATTGATTTAATCGGGTTATGTAGGGTGTTAATATAAAATTAGCATTTATTCAGCTACTAC
TATGAGTCTAGCCACTGGGCTATAGTGGCTTACATGTTATAGTACCACCGCACCTGGCCCTGGTAGTGATATTTA
ATCCAATCCAACAACCTATAGGCTGGGTAAATAAAAGGTCATTATTGTCTATATTCCAAGTGGAAATTAAATGTAG
TCACAGAGATTCCCTAACATTTTCCTTATATTTAAGGGAAATCACTTCTAAAAAACACACTAATCAGAACTGTGA
TGCTCTAATTAGAAACAACCTCATCTGGCCAACCTATTTGCTGCTCAGAGTTTCTTATTTCTTAGATGAAAAAACT
CATCAGTTATATTTCATGTGATCGCGGCTAAAAAGTCAGTATTTTCTTTTTGTTCTAATGTGGCTTCATTTGAAAT
TTCTCAGATTCTACATTGTACTAATTATGAATAACAAATTATAAATTAAAAACTCTTAAAGAGAAAACTTGGCT
TAAAAAATCATTTTCATATCTCCTTATAAGCCTTTGTCCTCTAGGTTGTAATGACTCTGACTTCCCACCTGTGAT
GGAAAGCTAAGAGTCACAAGGTCACCTATGTTTACTCTTACGTAAAAGATAGTACACATTTTGGCTAGGCTGTTTA
CTTCAAAGGCAACCTATAGGTTTCTACACAAAAGAGGCACACATTTGCATTTGCATTAGTATAATATGCATTT
GTACGGATATTGCTTTAAAAATTTATGTAATCTACTAATGCTATTTATTACTCATTCCACTGATCCCTGAAGTCT
CTCAACTAGTAGAGAAAATAACCGTGATTTAGCAAGAAGCGACATGGGGAAGGGTGACAACAATATACATTGTTT
GATTAGATACAG

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FIGURE 1416

MGKGDNNIHCLIRY

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FIGURE 1417

GAGCCCATGAAAAC TGACAGTGCTGAAAGTGAAGACTGAGATTCAGGAGCTGAGGTGCCCCTGTGATCCAGGTCT
TCCACCCTGAAACCCCATCCTCCATCAAGGTCCTGCCTGTAGAGTCTACCTTGCAAAGCCTCCTGCTCCTACCCA
TGCTTACAGGCCAGGAACCAGAGCCCATCATCTCAGAGGCCCTGGATGTCCTTCGAAGGAACCAGGACCCTCAGA
GCCCAGCATCCATCTCTGTCATCATCTTCATCACACCCAAAGAAGAGCCAGCCTTGCCAGGAGGGTTTACATCTCC
AGGAAGATGGGCTGCCAGCAACTGCAGAGGATGCAGCCACCTGCTTAACTGTGCTGTCCAGCCAGCCAGCCAGCT
GCAGGGCCTCTTGCTGCTTAAGAGCTGATGGGCCGGGCATGTTTGGCTCACACCTTGTGAGCACAGTATGGGAAA
TGGGAGCACAGTACTGGGAAATGGGAGCACAGTACTGGGAAATGGGAGCTCACAGTACTGGAAAATGGGAGCACA
GTACTGGGAAATGGGAGTACACTACTGGGAAATGGGAGCACAGTACTGGGAAATGGGAGCACAGTACTGGGAAAT
GGGAGTACAGTACTGAGAAATGGGAGCACAGTACTGGGAAATGGGATACAGTACTGGGAAATGGGAGCCCACAGT
ACTGGGAAATGGGAGTCACAGTACTCGGAAATGGGAGTTCAAGTACTGGGAAATGGGAGCACAGTACTGGGAAAT
GGGAGCATAGTACTGGGAAACCCAGACCTGGATTCTGAGTTTTTCAGCCTAGCCCAGACTTCTTATCTTAGTAG
ACAAAAAGAGTCAATACCAGAGAACCAGAGGCATCCTCTGTATTTAATGAACTCTGCATTTTAATCTGTTTAGT
AGTCATTTTTTAAAAGATAATCAGTTTTCCAAATATATCTATAAGTTACTACGTGAAAAAAAAAAAAA

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FIGURE 1418

MLQARNQSPSSQRPLDVLRNQPQSPASISVIIIFITPKEEPALQEGHLQEDGLPATAEDAATCLTVLSSQPAS
CRASCCLRADGPGMFGSHLVSTVWEMGAQYWEMGAQYWEMGAHSTGKWEHSTGKWEYTTGKWEHSTGKWEHSTGK
WEYSTEKWEHSTGKWDTVLGNGSPQYWEMGVTVLGNGSSSTGKWEHSTGKWEHSTGKPKQTWILSFSA

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FIGURE 1419

GAGGGCGCGATCCTGGCGTCCCCGACGGCCTGGGGCCCCAATCCAGAGGCCTGGGTGGGAGGGGACCAAGGGTG
TAGTAAGGAAGCGCCTTTTGCTGGAGGGCAACGGACCGGGGCGGGGAGTCGGGAGACCAGAGTGGGAGGAAGGCG
GGGAGTCCAGGTTCGCCCCGAGCCGACTTCCTCCTGGTCGGCGGGCTGCAGCGGGGTGAGCGGCGGCAGCGGCC
GGGGATCCTGGAGCCATGGGGCGCGCGCGCAGCCATCCTGGATGCGCTGGAGAACC TGACCGCCGAGGAGCTC
AAGAAGTTCAAGCTGAAGCTGCTGTCGGTGCCGCTGCGCGAGGGCTACGGGCGCATCCCGCGGGGCGCGCTGCTG
TCCATGGACGCCTTGACCTCACC GACAAGCTGGTCAGCTTCTACCTGGAGACCTACGGCGCCGAGCTCACC GCT
AACGTGCTGCGCGACATGGGCCTGCAGGAGATGGCCGGGCAGCTGCAGGCGGCCACGCACCAGGGCTCTGGAGCC
GCGCCAGCTGGGATCCAGGCCCCCTCCTCAGTCGGCAGCCAAGCCAGGCCTGCAC TTTATAGACCAGCACCGGGCT
GCGCTTATCGCGAGGGTCACAAACGTTGAGTGGCTGCTGGATGCTCTGTACGGGAAGGTCCTGACGGATGAGCAG
TACCAGGCAGTGCGGGCCGAGCCCACCAACCCAAGCAAGATGCGGAAGCTCTTCAGTTTCACACCAGCCTGGAAC
TGGACCTGCAAGGACTTGCTCCTCCAGGCCCTAAGGGAGTCCCAGTCCTACCTGGTGGAGGACCTGGAGCGGAGC
TGAGGCTCCTTCCCAGCAACACTCCGGTCAGCCCCTGGCAATCCCACCAAATCATCCTGAATCTGATCTTTTTAT
ACACAATATACGAAAAGCCAGCTTGAAAAAAAAAAAA

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FIGURE 1420

MGRARDAILDALENLTAEELKKFKLKLLSVPLREGYGRIPRGALLSMDALDLTDKLVSFYLETYGAELTANVLRD
MGLQEMAGQLQAATHQGSGAAPAGIQAPPQSAAKPGLHFIDQHRAALIARVTNVEWLLDALYGKVLTDQYQAVR
AEPTNPSKMRKLFSTPAWNWTCKDLLLQALRESQSYLVEDLERS

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FIGURE 1421

AGCGCCGCTGAATTCTAGGCAGAAAGAAAAGAGCTCCCAAATGCTATATCTATCAGGGGCTCTCAAGAACAATGG
AATATCATCCTGATTTAGAAAATTTGGATGAAGATGGATATACTCAATTACACTTCGACTCTCAAAGCAATACCA
GGATAGCTGTTGTTTCAGAGAAAGGATCGTGTGCTGCATCTCCTCCTTGGCGCCTCATTGCTGTAATTTTGGGAA
TCCTATGCTTGGTAATACTGGIGATAGCTGTGGTCTGGGTACCATGGGGGTCTTTCCAGCCCTTGTCCTCCTA
ATTGGATTATATATGAGAAGAGCTGTTATCTATTACAGCATGTCACTAAATTCCTGGGATGGAAGTAAAAGACAAT
GCTGGCAACTGGGCTCTAATCTCCTAAAGATAGACAGCTCAAATGAATTGGGATTTATAGTAAAACAAGTGTCTT
CCCAACCTGATAATTCAATTTGGATAGGCCTTTCTCGGCCCCAGACTGAGGTACCATGGCTCTGGGAGGATGGAT
CAACATTCTCTTCTAACTTATTTTCAGATCAGAACCACAGCTACCCAAGAAAACCCATCTCCAAATTGTGTATGGA
TTCACGTGTGAGTCATTTATGACCAACTGTGTAGTGTGCCCTCATATAGTATTTGTGAGAAGAAGTTTTCAATGT
AAGAGGAAGGGTGGAGAAGGAGAGAGAAATATGTGAGGTAGTAAGGAGGACAGAAAACAGAACAGAAAAGAGTAA
CAGCTGAGGTCAAGATAAATGCAGAAAATGTTTAGAGAGCTTGGCCAACCTGTAATCTTAACCAAGAAATTGAAGG
GAGAGGCTGTGATTTCTGTATTTGTGACCTACAGGTAGGCTAGTATTATTTTTCTAGTTAGTAGATCCCTAGAC
ATGGAATCAGGGCAGCCAAGCTTGAGTTTTTATTTTTTATTTATTTATTTTTTTGAGATAGGGTCTCACTTTGTT
ACCCAGGCTGGAGTGCAGTGGCACAATCTCGACTCACTGCAGCTATCTCTCGCCTCAGCCCCCTCAAGTAGCTGGG
ACTACAGGTGCATGCCACCATGCCAGGCTAATTTTTGGTGTTTTTTGTAGAGACTGGGTTTTGCCATGTTGACCA
AGCTGGTCTCTAACTCCTGGGCTTAAGTGATCTGCCCCCTTGGCCTCCCAAAGTGCTGGGATTACAGATGTGAG
CCACCACACCTGGCCCCAAGCTTGAATTTTCATTCTGCCATTGACTTGGCATTACCTTGGGTAAGCCATAAGCG
AATCTTAATTTCTGGCTCTATCAGAGTTGTTTCATGCTCAACAATGCCATTGGAGTGCACGGTGTGTTGCCACGA
TTTGACCCCTCAACTTCTAGCAGTATATCAGTTATGAACTGAGGGTGAAATATATTTCTGAATAGCTAAATGAAGA
AATGGGAAAAAATCTTCACCACAGTCAGAGCAATTTTATTATTTTCATCAGTATGATCATAATTATGATTATCAT
CTTAGTAAAAAGCAGGAACCTCTACTTTTTCTTTATCAATTAAATAGCTCAGAGAGTACATCTGCCATATCTCTA
ATAGAATCTTTTTTTTTTTTTTTTTTTTTTGGAGACAGAGTTTCGCTCTTGTGCCCAGGCTGGAGTGCAACGGCAGC
ATCTCGGCTCACCGCAACCTCCGCCCCCTGGGTTCAAGCAATTCCTCGCCTCAGCCTCCCAAGTAGCTGGGATT
ACAGTCAGGCACCACCACACCCGGCTAATTTTGTATTTTTTTAGTAGAGACAGGGTTTTCTCCATGTGCGTCAAGG
TAGTCCCGAACTCCTGACCTCAAGTGATCTGCCTGCCTCGGCCTCCCAAGTGCTGGGATTACAGGCGTGAGCCAC
TGCACCCAGCCTAGAATCTTGATAATAIGTAATTGTAGGGAACTGCTCTCATAGGAAAGTTTTCTGCTTTTTTA
AATACAAAAATACCATAAAAAATACATAAAATCTGATGATGAATATAAAAAAGTAACCAACCTCATTGGAACAAGTA
TTAACATTTTGGAAATATGTTTTATTAGTTTTGTGATGTACTGTTTTACAATTTTTTACCATTTTTTCCAGTAATT
ACCTGTAAAATGGTATTATTGGAATGAACTATATTTCTCATGTGCTGATTTGTCTTATTTTTTTCATACTTTC
CCACTGGTGCTATTTTTATTTCCAATGGATATTTCTGTATTACTAGGGAGGCATTTACAGTCCTCTAATGTTGAT
TAATATGTGAAAAGAAATTGTACCAATTTTACTAAATTATGCAGTTTAAAATGGATGATTTTATGTTATGTGGAT
TTCATTTCAATAAAAAAAAACCTCTTATTA

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FIGURE 1422

MEYHPDLENLDEDGYTQLHFDSQSNTRIAVVSEKGSAAASPPWRLIAVILGILCLVILVIAVVLGTMGVLSSPCP
PNWIIYEKSCYLFMSLSNSWDGSKRQCWQLGSNLLKIDSSNELGFIVKQVSSQPDNSFWIGLSRPQTEVPWLWED
GSTFSSNLFQIRTTATQENPSPNCVWIHVSVIYDQLCSVPSYSICEKKFSM

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FIGURE 1423

GACTCCCAAGCTTGTTTTCCAATCAGTGTXAAGCTGTTTGAACTCTCCTGTGTCTGTGTTTTGTTGTGCGTGT
GTGTGAGAGCACATCAGTGTGTGCAGGCTGTGTTTCCCCATTTCTCTCCTCCCTTCAGACCCATCATTGAGAACA
AATGTAAGAAATCCCTTCCCACXACCCTCCCTGCCTCCCAGGCCCTCTGCGGGGGAAACAAGATCACCCAGCATC
CTTCCCCACCCAGCTGTGTATTTATATAGATGGAAATATACTTTATATTTTGTATCATCGTGCCTATAGCCGCT
GCCACCGTGTATAAATCCTGGTGTCTGCTCCTTATCCTGGACATGAATGTATTGTACACTGACGCGTCCCCACTC
CTGTACAGCTGCTTTGTTTCTTTGCAA

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FIGURE 1424

GTCTCGCCCTCTTGCACTCTGCAGCTTCTCCTGTTCATCGGAAATGCCAGGCCAAGGTGGCTGCCCCCTGCGTTCC
TCCATCCAACCATGAGCTGGTGCCCATCACCCTGAGAATGCACCAAAGAATGTAGTGGACAAGGGAGAAGGAGG
CTCCCGGGGTGGAAACACACGGAAAAGCCTCGAGGACAACGGCTCCACCAGGGTCACCCCGAGTGTCCAGCCCCA
CCTCCAGCCCCATCAGAAACATGAGTGTGAGCCGGACCATGGAGGACAGCTGTGAGCTGGACCTGGTGTACGTAC
AGAGAGGATCATCGCTGTCTCCTTCCCCAGCACAGCCAATGAGGAGAACTTCCGGAGCAACCTCTCTGAGCGGAG
ACCTGACATCACGAAGCTCCATGCCAAGGTACAGGAATTTGGCTGGCCCCGACCTCCACACCCAGCCCTGGAGAA
GATCTGCAGCATCTGTAAGGCCATGGACACATGGCTCAATGCAGACCCCTCACAATGTCGTTGTTCTACACAACAA
GGGAAACCGAGGCAGGATAGGAGTTGTCATCGCGGCTTACATGCACTACAGCAACATTTCTGCCAGTGCAGGACCA
GGCTCTGGACCGGTTTGCAATGAAGCGGTTCTATGAGGATAAGATTGTGCCCATTTGGCCAGCCATCCCAAAGAAG
GTACGTGCATTACTTTCAGTGGCCTGCTCTCCGGCTCCATCAAAATGAACAACAAGCCCTTGTTTTCTGCACCACGT
GATCATGCACGGCATCCCCAACCTTTGAGTCTAAAGGAGGATGTGCGCCGTTTCTCCGCATCTACCAGGCCATGCA
ACCTGTGTACACATCTGGCATCTACAACATCCCAGGAGACAGCCAGACTAGCGTCTGCATCACCATCGAGCCAGG
ACTGCTCTTGAAGGGAGACATCTTGCTGAAGTGCTACCACAAGAAGTTCCGAAGCCCAGCCCAGACGTCATCTT
CCGTGTGCAGTTCCACACCTGTGCCATCCATGACCTGGGGGTTGTCTTTGGGAAGGAGGACCTTGATGATGCTTT
CAAAGATGATCGATTTCCAGAGTATGGCAAAGTGGAGTTGTATTTTCTTATGGGCCAGAGAAAATTCAAGGCAT
GGAGCACCTGGAGAACGGGCCGAGCGTGTCTGTGGACTATAACACCTCTGACCCCTCATCCGCTGGGACTCCTA
CGACAACCTTCAGTGGGCATCGAGATGACGGCATGGAGGAGGTGGTGGGACACACGCAGGGGCCACTAGATGGGAG
CCTGTATGCTAAGGTGAAGAAGAAAGACTCCCTGCACGGCAGCACCGGGGCTGTTAATGCCACACGTCCTTACCT
GTCGGCCACCCCAACCACGTGGAACACACGCTTTCTGTGTATTTATATAGATGGAAATATACTTTATATTTTGT
ATCATCGTGCCTATAGCCGCTGCCACCGTGTATAAATCCTGGTGTATGCTCCTTATCCTGGACATGAATGTATTG
TACACTGACGCGTCCCCACTCCTGTACAGCTGCTTTGTTTCTTTGCAATGCATTGTATGGCTTTATAAATGATAA
AGTT

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FIGURE 1425

MSVSRTMEDSCELDLVYVTERIIAVSFPSTANEENFRSNLSERRPDITKLHAKVQEFGWPDLHTPALEKICSICK
AMDTWLNADPHNVVVLHNKGNRGRIGVVIAAYMHYSNISASADQALDRFAMKRFYEDKIVFIGQPSQRRYVHYFS
GLLSGSIKMNNKPLFLHHVIMHGIPNFESKGGCRPFLRIYQAMQPVYTSGIYNIPGDSQTSVCITIEPGLLLKGD
ILLKCYHKKFRSPARDVIFRVQFHTCAIHDLGVVFGKEDLDDAFKDDRFPEYGKVEFVFSYGPEKIQGMEHLENG
PSVSVDYNTSDPLIRWDSYDNFSGHRDDGMEEVVGHTQGPLDGSLYAKVKKKDSLHGSTGAVNATRPTLSATPNH
VEHTLSVYLYRWKYTLYFVSSCL

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FIGURE 1426A

CCGGCGGCGAGACGGAGAGGCGGCGGAGGTGCCGCGCAGGATCTGGTGGGCGGCCGCGAGGCTCGGGAGAGGC
GAACCGGAGCGCGGGACCGCGGTGCCCCGACCAGAGCCGGGAGACCGCAGCACCCGCGAGCCGCCGCGAGCGCG
CCGAAGACAGCGCGCAGGCGAGAGCGCGCGGGGCGGGGCGCGCAGGCCCTGCCCGCCCCCTTCCGTCCCCACCCCC
CTCCGCCCTTTCTCTCCCCACCTTCTCTCGCCTCCCGCGCCCCCGCACCGGGCGCCACCCGTGTCTCTCTCT
GCGGGAGCGTTGTCCGTGTTGGCGGCGCGCAGCGGGCCGGGCCGGTCCGGCGGGGCGGGGGATGGCGCTGCTGGA
CCTGGCCTTGGAGGGAATGGCCGTCTTCGGGTTCTGCTCTTCTTGGTGCTGTGGCTGATGCATTTTCATGGCTAT
CATCTACACCCGATTACACCTCAACAAGAAGGCAACTGACAAAACGCCCTTATAGCAAGCTCCCAGGTGTCTCTCT
TCTGAAACCACTGAAAGGGGTAGATCCTAACTTAATCAACAACCTGGAAACATTCTTTGAATTGGATTATCCCAA
ATATGAAGTGCTCCTTTGTGTACAAGATCATGATGATCCAGCCATTGATGTATGTAAGAAGCTTCTTGGAAAATA
TCCAAATGTTGATGCTAGATTGTTTATAGGTGGCAAAAAAGTTGGCATTAACTCTAAATTAATAATTTAATGCC
AGGATATGAAGTTGCAAAGTATGATCTTATATGGATTTGTGATAGTGGAATAAGAGTAATTCCAGATACGCTTAC
TGACATGGTGAATCAAATGACAGAAAAAGTAGGCTTGGTTCACGGGCTGCCTTACGTAGCAGACAGACAGGGCTT
TGCTGCCACCTTAGAGCAGGTATATTTTGAACCTTCACATCCAAGATACTATATCTCTGCCAATGTAAGTGGTTT
CAAATGTGTGACAGGAATGTCTTGTTTAATGAGAAAAGATGTGTTGGATCAAGCAGGAGGACTTATAGCTTTTGC
TCAGTACATTGCCGAAGATTACTTTATGGCCAAAGCGATAGCTGACCGAGGTTGGAGGTTTGCAATGTCCACTCA
AGTTGCAATGCAAACTCTGGCTCATATTCAATTTCTCAGTTTCAATCCAGAATGATCAGGTGGACCAAACTACG
AATTAACATGCTTCTGTCTACAATAATTTGTGAGCCAATTCAGAATGCTTTGTTGCCAGTTTAATTATTGGATG
GGCAGCCACCATGTGTTTCAATGAGGATATTATGGTATTTTTCATGTGTGCTTGCCTGGCATGGTTTATATTTGA
CTACATTCAACTCAGGGGTGTCCAGGGTGGCACACTGTGTTTTTCAAACTTGATTATGCAGTCGCCTGGTTTAT
CCGCGAATCCATGACAATATACATTTTTTTGTCTGCATTATGGGACCCAACATAAGCTGGAGAAGTGGTCTGCTA
CAGATTACGCTGTGGGGGTACAGCAGAGGAAATCCTAGATGTATTAAGTACAGCTTTGTGACTGTATATAAAGGAA
AAAAGAGAAGTATTATAAATTATGTTTATATAAATGCTTTTAAAAATCTACCTTCTGTAGTTTTATCACATGTAT
GTTTTGGTATCTGTTCTTTAATTTATTTTTGCATGGCACTTGCATCTGTGAAAAAATAAACAACATCTGTAG
TCTTGGCCAAATGATACACTTTATTTTTGTGGAAGTAGAGAATCAAGAGAATTGGTTCTAGGAACCTGGGTTTCTG
CATCATTGTTGTTTATTTTTTTTAAATAAATAAATAAATATATATATAGATGCTCTGCAACAACTCTGTGACAG
TATCCTTCAGTAGAGAAAGTTTCTTACTTGTGAGTACACTCTTTTAGAACATTTACGGGTGGCAGCAGCTTTGCT
TTAGAGTTTAGAAGATAATAGAAGGAATGACTATTCATGTCCAAAGTGAATGGTTTTGTGAGTGAACAACACAT
GGCGAGGTACTAACTGAGAACTTTTTTCTATGCTTTATGCCTACCTCTTGTAGTTGTTGCAGAGCAAATACAAATT
GTAATAAGATAGCTAGGCCTTGCAGAAACAAACAGAAAACTTAAAAAATGATATAAGAGCTGGAGTCTAGT
ATTTATATGAATCTGTGAGAGATAATTTTTTTGGTCTCACTGCAATGAACCAAAGCGGCTGAGTTTGGTTTTTA
ATTGTAGCCATGTATTGAAGGCATCTTTTTGACCAACTCTTGTGGTTCTGTCTTGAACCATTGTTAATCACTGT
GCTGTAATTAGTATAGCTAAATCTTTTCTTCTTCTCTCCCCAGCCACCCCGTCTTCCCTTAACATTTTTT
TCAGGGGGGGTTGGGAGTGGTTTCATTTTAGTGTGAGTGGATGTTTTGATAGTTGTAAGGAAAAATGCATTTCA
GACACATTTACACATGAGCTATTTTCTTACACAGTATGTCTTATTGTTAATAAGAATGTAATTTTCATGATACAA
GTATTTAATACCTTTTTTAAGTCAGTAAATATTCTAGCCATCAATAAATTGCAGTAGAGTATTAAGAGGGGACAG
GATGAGTTTACTCTTAAATTAATCAGTATCAAACTAAGTCTACTGTGTGTGTTTTTTTTTTTTTTTTTTTTTTT
TTGTTTGTTTACTATTATAGTAAGTCTAGTCTTATTTAAATTGGATTTTTGTATTCAAGTTTATATGACAAAATA
GACTAGATCAGCGCTGGTTGTAAATGCATGCTGTACCTCACGTTTTTCTCCCATCATGCCGCTAAACTTGCTCG
CCAGGTTGTGCTTAACTTGTGGTGAAGTGGACTTGATTCTGTTTTGTTTTTTTTTTTTTAAANAAAAAACA
TGTAAGGGACAGTGCATAAGCCTTTTCTTGTAAAGTAGTGGTGTGTTTTGCTTTTTCTTCAGGATTGGATGGCATG
TTGTCCACAGGAATGCCTACTGCAGGGCTAACACTGGCAATATGGCAGCTTTAAATTCTGAGTTACTACAGTCTC
CATGTCAAAGCATAATGTGTAGCATATCAGCAATAACTACATATTTATAGAAAACACTTTTTCACTTTACTGAGC
CAATTCATTTAATTTGTCAAATGTCTATATCCATGGTTTAAATGGCAACATATCTATAAGTATGTATACACATTAT
ATTTAAGCTTTTCTCTGGGCCAACTGCTTCATCCTTTTTCTTTCTTTTTTTTTTTTTTTTGTATAGCCTTATGATGA
ATTTGTTTGAAGGGCATTTTCTTTATGAACAAAGGCTTGGATGCATATTCCTTTCTTTCTGTGAATGGGTATTAT
TCCCTGAGGAAAGTTGCACAGTGAACCAAGTCTGGTTGTGACCCACTACATGTTTTGTTTTTAATCACTATTAC
CTGAGTTGAACCTTGTCTACCATGTTTGTACTTGTGGTCTGTTTAAATGAAGTTTGGTTGATGCCATCCTTTGCA
CTGCCGAAGCGTAATCTTGTGTATTACTTAGCTCTCTGCTGATCTCAGTATGGACAGTGTAAACAACAAACCAA

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FIGURE 1426B

ATGGCTGGACAGACTTCTTGTGTTTTGTAAATATAAACTAGGACAGTTCTGTAGGTTTGTTTCAGTGTGCTAGTGG
AGTATTTTCCTTAATGTAAAACCTTCACTTAACAGAGAGATTCTTTGTTTAGCAAGCTTGGAGTGATGATAAAATGG
TAAGAAATAATATAAATGTTGAAGAAAGCATCACACAGAACTATAGGAGTCTAAATTTAATAAATCTTTAAAAA
AAACCAGTGTCTAGAATATATACCATGTTTTATTATTTAAATCATTGTCTTAAATTTTTGTTCAAAAAATAAAA
ATTTGAATACAATCAAAAAAATAAGTATAA

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FIGURE 1427

RRRDGEAAEVPRAGSGGRPRGSGEANRSAGPRSPRPEPGDRSTRSRPRARRRQRAGESARAGARRPCPPLPSPPP
SALSSPHLPASRAPAPGAHPVLLLRERCPCWRPQRAGPVRRGRGMALLDLALEGMAVFGFVLFVLWLMHFMAI
IYTRLHLNKKATDKQPYSKLPGVSLLKPLKGVDPNLINNLETFFELDYPKYEVLLCVQDHDDPAIDVCKKLLGKY
PNVDARLFIGGKKVGINPKINNLMPGYEVAKYDLIWICDSGIRVIPDTLTDMVNQMTEKVGLVHGLPYVADRQGF
AATLEQVYFGTSHPRYYISANVTGFKCVTGMSCLMRKDVLDQAGGLIAFAQYIAEDYFMAKAIADRGWRFAMSTQ
VAMQNSGSYSISQFQSRMIRWTKLRINMLPATIICEPISECFVASLIIGWAAHHVFRWDIMVFFMCHCLAWFIFD
YIQLRGVQGGTLCFSKLDYAVAWFIRESMTIYIFLSALWDPTISWRTGRYRLRCGGTAEELDV

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FIGURE 1428

GACTCCTCATCACAAAAGGCGCGAAAGTGAACGGTCGGCAGAAGAACGGGACCACCGCCCTCATTTCATGCTGCAG
AGAAGAACTTTTTTAACAACAGTGGCTATTCTTTTGAAGCAGGAGCTTTTGTAATGTCCAGCAAAGCAATGGTG
AGACTGCACTGATGAAGGCCTGTAAAAGAGGAAATTCAGACATCGTACGACTCGTAATTGAATGTGGAGCTGACT
GCAATATTTTGTCAAAGCACCAGAATAGTGCCCTGCACTTTGCGAAGCAGTCTAACAATGTGCTTGTGTACGACT
TGCTGAAGAACCATTTAGAGACACTTTCAAGAGTAGCAGAAGAGACAATAAAGGATTACTTTGAAGCTCGCCTTG
CTCTGCTAGAACCAGTTTTTCCAATCGCATGTTCGACTCTGTGAGGGTCCAGATTTTTCAACAGATTTC AATT
ACAAACCCCCACAGAACATAACCAGAAGGCTCTGGCATCCTGCTGTTTATCTTCCATGCAAACTTTTTGGGTAAAG
AAGTTATTGCTCGGCTCTGTGGACCGTGTAGTGTACAAGCTGTAGTTCTGAATGATAAAATTCAGCTTCCTGTTT
TTCTGGACAGTCATTTTGTTTACTCATTACGCCCTGTTGTCAGGTCCCAATAAACTCTTCATAAGGTTGACAGAAG
CACCTCTGCCAAGGTTAAGTTGCTAATAGGTGCATACAGAGTGCAGCTGCAGTGAACCAACAGAAGGGACTGGG
CGGAGTTCTCTTCAGACCGATTCTTATACTCTCTTTGACAGCAGTTTGGAAATCTTCTAGCACATCTATGTAAAG
TTTTGTCTGTAAACCTCTTGCAGTTAAGCCTGTTGTCTGTTGTAGTCTGTAAAGATGCGACATAGCTGTGTCTGTG
CCAGTATGCCGGAATCTCAGTGCAGTGTCCAGACTGCGTATTTTCAGTTTTTCCACAATGTGGATAGTACATATGA
GGATTATTTAAGAAAATTAAAGACTTCACTTTCTTTTTCTGGAGACGGAGTTTCGCTCTTGTGCCCAGGCTGG
AGTGCAATGGTGCGATCTCGGCTCACTGCAAGCTCTGCCTCCTGGGTTCAAGTGATTCTCCTGCCTCAGCCTCCT
GAGTAGCTGGGATTACAGACACCCGCCATGGCACCCAGCTAATTTTGTATTTTGTAGTAGAGATGGGGTTTATCCA
TGTTGGTCAGGCTGGTCTTGAACCTCCTGACCTCAGGTGATCCGCCCGCTCGGCCTCCCAAAGTGCTTGGATTAC
AGGCATGAGCCACCGCACCCAGCAAGAGTTATTTTCTTAACTTGAAATTTCTACTAGCCCTGGTGAACCTCTGT
GCTTAAAAAAAAAAAAAAAAAAGGAAAAATTAGCTCTAAAACATTTGCTTACAGCAAGGGAGCCATGTTATATT
CAAGTTACCCAAGCACCAATAAAGTGTGGGTTTGTGCCCCTTGAAAGGGTTGGGAGGCCTGATCTTTTTCTAGT
AGACAGTTGCCACACATTCCCCAAGCACAAAAGGTGGAGATGGCAGTCACTTTGTAAATATGCTGTAGTCACTTA
TCATCTTTTCAAAGGGTAACAAGAGAATCTAAGATGTAGTAAGAATGTAAACCAGTACACTATGAGACCTAAAAG
AGAGTATTAAATGTGAACTTTGTAGCAGAGCGTGGTGGCTCACACCTATAATCCAGCGCTTTGGAGGCTGAGGTT
GGAGGATTGCTTGAGTCCAGGAGTTCAAGACCAGCCTGGGTAACATGGGGTGGAACAAGCCTGTAGTCCCAGATA
CTCAGGAGGCTGAGGTGAAAGGATTGCTTGGGCCAGGGAGGTCAAGGCTGCAGTGAGCCGTGAAAGGCCACTGCA
CTCCAGCCTGGGTGACAGAATGAGACCTTGTCTCAAAAAAAAAAAAAAAAAAGTTTCTTGGAACCTATACGGTTTTT
TTTTGTTTTTTTTTTTGAAGGCCAGACCTTGTGCCCTTGTTTTGAACACCGACTGGGAAGATGGGGCTTAGGTA
ACAGCCAAACCTGGCTGTCAGCTGTGTGGGAGCCACCACCTCTCTGGGAAGAGTTTCTGCTTCTGTATGGCAAG
CATAAATCAAGCTCAGTCTGGGTATGGAGAAGTTGAAAATTGTTTTGTTTCTCATTAGTTTATAATTGTATGAA
ATACGATTTTAAATGAAAACTTTTCAGAATTCAGTTTGTGTAGATATTTTCAGAGAACCATTTTTACTTTACATCC
TAAAACTGCCTTTTCTATGGTTTTGTCAATAAAACACTATGATGTT

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FIGURE 1429

MKACKRGNSDIVRLVIECGADCNILSKHQNSALHFAKQSNNVLVYDLLKNHLETLSRVAEETIKDYFEARLALLE
PVFPIACHRLCEGPDFSTDFNYKPPQNIPEGSGILLFIFHANFLGKEVIARLCGPCSVQAVVLNDKFQLPVFLDS
HFVYSFSPVAGPNKLFIRLTEAPSAKVKLLIGAYRVQLQ

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FIGURE 1430

TGAAAACACAATCAGCTCTGACAGTTAGACATGCACACAGACGCCATAGCTGGATTGGAAACATTGATGTTTTAA
AAATTTATTTTTTTTTTGGAAATAGTTGCACAAATGCTGCAATTTAGCTTTAAGGTTCTATAGATTTTAACTAGT
CCAACACAGTCAGAAACATTGTTTTGAATCCTCTGTAAACCAAGGCATTAATCTTAATAAACAGGATCCATTTA
GGTACCACTTGATATAAAAAGGATATCCATAATGAATATTTTATACTGCATCCTTTACATTAGCCACTAAATACG
TTATTGCTTGATGAAGACCTTTCACAGAATCCTATGGATTGCAGCATTTCACTTGGCTACTTCATACCCATGCCT
TAAAGAGGGGCGAGTTTCTCAAAAGCAGAAACATGCCGCCAGTTCTCAAGTTTTCCTCCTAACTCCATTGATGT
AAGGGCAGCTGGCCCCCAATGTGGGGAGGTCCGAACATTTTCTGAATTCCCATTTTCTTGTTGCGCGGTAAATGA
CAGTTTCTGTCATTACTTAGATTCCGATCTTTCCCAAAGGTGTTGATTTACAAAGAGGCCAGCTAATAGCAGAAA
TCATGACCCTGAAAGAGAGATGAAATTCAAGCTGTGAGCCAGGCAGGAGCTCAGTATGGCAAAGGTTCTTGAGAA
TCAGCCATTTGGTACAAAAAGATTTTTAAAGCTTTTATGTTATACCATGGAGCCATAGAAAGGCTATGGATTGT
TTAAGAACTATTTTAAAGTGTTCCAGACCCAAAAA

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FIGURE 1431A

GGAAGGTTTAAAGAAGAAGCCGCAAAGCGCAGGGAAGGCCTCCCGGCACGGGTGGGGGAAAAGCGGCCGGTGCAGC
GCGGGGACAGGCACTCGGGCTGGCACTGGCTGCTAGGGATGTCGTCTGGATAAGGTGGCATGGACCCGCCATGG
CGCGGCTCTGGGGCTTCTGCTGGCTGGTTGTGGGCTTCTGGAGGGCCGCTTTTCGCCTGTCCACGTCCTGCAAAT
GCAGTGCTCTCGGATCTGGTGCAGCGACCCTTCTCCTGGCATCGTGGCATTTCGAGATTGGAGCCTAACAGTG
TAGATCCTGAGAACATCACCGAAATTTTCATCGCAAACCAGAAAAGGTTAGAAATCATCAACGAAGATGATGTTG
AAGCTTATGTGGGACTGAGAAATCTGACAATTGTGGATTCTGGATTAAAAATTTGTGGCTCATAAAGCATTCTGA
AAAAACAGCAACCTGCAGCACATCAATTTTACCCGAAACAAACTGACGAGTTTGTCTAGGAAACATTTCCGTCACC
TTGACTTGTCTGAACTGATCCTGGTGGGCAATCCATTTACATGCTCCTGTGACATTATGTGGATCAAGACTCTCC
AAGAGGCTAAATCCAGTCCAGACACTCAGGATTTGTAAGTGCCTGAATGAAAGCAGCAAGAATATTCCCCTGGCAA
ACCTGCAGATACCCAAATTGTGGTTTGCCATCTGCAAATCTGGCCGCACCTAACCTCACTGTGGAGGAAGGAAAGT
CTATCACATTATCCTGTAGTGTGGCAGGTGATCCGGTTCCCTAATATGTATTGGGATGTTGGTAACCTGGTTTCCA
AACATATGAATGAAACAAGCCACACACAGGGCTCCTTAAGGATAACTAACATTTTCATCCGATGACAGTGGGAAGC
AGATCTCTTGTGTGGCGGAAAATCTTGTAGGAGAAGATCAAGATTCTGTCAACCTCACTGTGCATTTTGCACCAA
CTATCACATTTCTCGAATCTCCAACCTCAGACCACCACTGGTGCATTCCATTCCTGTGAAAGGCAACCCCAAAC
CAGCGCTTCAGTGGTCTCTATAACGGGGCAATATTGAATGAGTCCAAATACATCTGTACTAAAATACATGTTACCA
ATCACACGGAGTACCACGGCTGCCTCCAGCTGGATAATCCCACTCACATGAACAATGGGGACTACACTCTAATAG
CCAAGAATGAGTATGGGAAGGATGAGAAACAGATTTCTGCTCACTTCATGGGCTGGCCTGGAATTGACGATGGTG
CAAACCCAAATTATCCTGATGTAATTTATGAAGATTATGAACTGCAGCGAATGACATCGGGGACACCACGAACA
GAAGTAATGAAATCCCTTCCACAGACGTCCTGATAAAACCGGTGCGGAACATCTCTCGGTCTATGCTGTGGTGG
TGATTGCGTCTGTGGTGGGATTTTGCTTTTGGTAATGCTGTTTCTGCTTAAGTTGGCAAGACACTCCAAGTTTG
GCATGAAAGGTTTTGTTTTGTTTCATAAGATCCCACTGGATGGGTAGCTGAAATAAAGGAAAAGACAGAGAAAGG
GGCTGTGGTGCTTGTGGTTGATGCTGCCATGTAAGCTGGACTCCTGGGACTGCTGTTGGCTTATCCCGGGAAGT
GCTGCTTATCTGGGGTTTTCTGGTAGATGTGGGCGGTGTTTGGAGGCTGTACTATATGAAGCCTGCATATACTGT
GAGCTGTGATTGGGGAACACCAATGCAGAGGTAACCTCTCAGGCAGCTAAGCAGCACCTCAAGAAAACATGTTAAA
TTAATGCTTCTCTTCTTACAGTAGTTCAAATACAAAACGAAATGAAATCCCATTGGATTGTACTTCTCTCTGTA
AAAGTGTGCTTTTTGACCCTACTGGACATTTATTGACTTAATTGCTTCTGTTTATTAATAATTGACCTGCAAAGTT
AAAAAAAATTAAAGTTGAGAACAGGTATAAGTGCACACTGAATAGTCTAATCTACATGTAACACATATTTTAGT
ATGATTTTCTATACTCTAATCAGCACTGAATTCAGAGGGTTTGAATTTTTCATCTATAACACAGTGAATAAAGA
GTTAAGGGTATATATAACCATCACTTTGGGACTTGGTAGTATTATTAAGGTTATTTCCCTCACTGTCAATAAAA
GTCCAAATGTTTAGCTTAGGTCTGAGAGTCAAACAATGTTAAGGATTGTCTTAAAGTTCCTTAGCCAGCAAAACA
AAACAAAACAAAACAAACAAATGAAAAACGTTTAAAAAGAAGAAGAAGAAGAAAACAAGAACAAGCAGCAACAG
CTGTTTTGTGGGGCTATAGATTTAAGTTAGGCATAGTCAATTTCAGAATAACTAAGAGTGGAATATATGCATAT
GGTGAAATTATAACCTTGCCCTTTTTTATTTGCCCTCTGCGATCCACCTGCTTTTTAGAAAGTCTGCCGAGTGAGA
AGGCCACAGTATCTCATGCTGTTTGCATTACAGAAGTGCAGCTTTTCTACTCTGAAAAGGCCTGGGAGCAGAATG
GCTGGCCTGCTGTGAGCAGGAGAGGAGATTCTAAGAAGGATAGTCCCCCTACAACATACTGTCATACTGCTGGG
TTTTCATGGGTAGGAAAGCTTGCTCTGACCCAGCAGCAAAGAGGTGGCAGGTGCTAATGAATATATGCTTTAT
AATGTCCTTCTTCATTGCTGAGAGGGCAGCCTTAGAGCTGTGGATTCTGCTATCCCCCTGAGTCTGACCCATGG
ACACCTGTTTCATTCACTTTAGCATCACAGTGACCTTTGTATGCTCTGTTTCAGTCTGTGTCAGGCAGTATGCTTG
TCCTGAAGAGAGGTTTGGCTATCCCCACCCACCCACCCACCCCTGTTCTTTTTTATCAGGAGGACTTCAGAG
CCAGGCCTGCAGCATTTTGTGTTGAAAACACAATCAGCTCTGACAGTTAGACATGCACACAGACGCCATAGCTGGA
TTGGAAACATTGATGTTTTAAAAATTTATTTTTTGGAAATAGTTGCACAAATGCTGCAATTTAGCTTTAAGGT
TCTATAGATTTTAACTAGTCCAACACAGTCAGAAACATTGTTTTGAATCCTCTGTAAACCAAGGCATTAATCTT
AATAAACAGGATCCATTTAGGTACCACTTGATATAAAAAGGATATCCATAATGAATATTTTATACTGCATCCTT
TACATTAGCCACTAAATACGTTATTGCTTGATGAAGACCTTTCACAGAATCCTATGGATTGCAGCATTTCACTTG
GCTACTTCATACCCATGCCTTAAAGAGGGGAGTTTCTCAAAAGCAGAAACATGCCGCCAGTTCTCAAGTTTTCC
TCCTAACTCCATTTGAATGTAAGGGCAGCTGGCCCCCAATGTGGGGAGGTCCGAACATTTTCTGAATTTCCATTT
TCTTGTTCCGCGCTAAATGACAGTTTCTGTCACTTAGATTCCGATCTTTCCCAAAGGTGTTGATTTACAAAG
AGGCCAGCTAATAGCAGAAATCATGACCCTGAAAGAGAGATGAAATTCAGCTGTGAGCCAGGCAGGAGCTCAGT

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FIGURE 1431B

ATGGCAAAGGTTCTTGAGAATCAGCCATTTGGTACAAAAAGATTTTTAAAGCTTTTATGTTATACCATGGAGCC
ATAGAAAGGCTATGGATTGTTTAAAGAACTATTTTAAAGTGTTCCAGACCCAAAAAGGAAAAATAAAAAAAGGA
ATATTTGTACCCAACAGCTAGAAGGATTGCAAGGTAGATTTTTGTTTTTAAATGGAGAGAAGTGGACAGATAAGG
CCATTTAATATATCAAAGATCAGTTGACATCTCCTAGGGAATGATGAAAAACAGCAGGCTATTAGAAAATTATTTCT
ATATAGTTCTCGTGTCTCTTTCTTTTTTTTTTAAATCCCTGAAGGGATGATCAGTAACATAGCTTCTCTTTCTGTAC
TCTAGACCACCCCTTTTCATCATTTTGCTTTTTATGTCTCCCATAAAGAAATGTGCTTTTTAGAGCTTCCTAATGC
ATGTGTTGCATTATTGCAGCATTAGAAAAGGAGAGGTAGCATTTTTGCTGAAATCGGGCCTGTCACTCTCCAATA
AAGGTTCTGGCACTTCAATGCCAGGCAGGTCTCCTAAATGAACAGAATGATCTGTGTGAGCCGATGCCTGCCCTT
CCAAGAGGGGCCACTGTCCCCAGCCGAGCCAACTGTGTCCACAGGAATGGGAGCCTAGGTTTCCAAATCTTGTTG
ATTCTTTAGGAGAAACATGAAACCTGGATTTCGTGTGAAATGTCCCGATTGTTAAAAAGTTGGCTCAATTATTTT
TAAACATTTTGTAAAGCCAACAAAAGTCTGTGGGCTGCCAGTTTATTACTTTTGTCTTAAACATGATCATTGTT
CTCTCACGGTATCCTTCTGTCTTCCCGTTGCAAATTCATTTTCTTTCTTCTGACATTGCCATTGAGGGCTTTG
TTACCACAAGCTAAGAACTGAGTTTAAACAGCCAGTTATCTGCAACATGTCAATTACCTTTGCTCCTCTCCTGT
GATTTCCACCATGTGTGTGACCCTCAGCTGTCTCCCTTTGCTGGGAATTCTGCACCAATGTCTCCCTCAACCCAT
TCCCTGGTTGGTCTTACTCCCGTGTGGCCAGAGACATCCTAGCAAATCCTTCTCCTATTATATCTGACACTAAT
TTCTTTTCAACAGCGCTCATGTCTCTTGGCCAGTCAGGTGCTGCCAGGTTTAGATAGGAAAGTACATGTCCCAT
TTTCATGGGTGCCCTTAATGTGGTCCACGTCTATATCTTATTATATTACTCATGGCTCAATGGGGGCTCCAG
AGACCTCTCAGGCTGCTGAGCTAGACTAAGGAATGCATCCACTGTCATCACATGAGACACTGACTCTGTGACGA
CAAAAGTACAAACAGTCTGAGGCTAAGAAAGTTTCATCTCACAAACAGGAAAAACAAATCTCAACACACATTAGAG
ATAATTGATTCAGGGGTTTTCTCTCCAGTCTCCAGCAGGGACTGATTTCAATTTCTGACCCACTAGGTTTTCTT
TCCAGAAATAGGTAGCAAGGACAAGAACTAAACAATCCCAGCCCCACCCAGCAACACAGAACACAGGAGTTTGCT
TTTGGCTTCTCACTCTCCAAGTAACCCTGAATTAGGCCCAGAATGGCTGAGGCTTGGAGCATCTCCTCAGACAGA
GCAGAGGCGACACCTCTTCAGGGGTGTGTGGAGTAAATAGCTCGAAGAGCTGAAGACAGAAAACCAGTTTCACGC
CAGGTGCGAGAGAGAGCGTAATGGAGGGAAGCCCGCTTTCTCTCTCCTCTTCTTTTCTCTTTATTTCTTTAGAGC
ACTGACTTTTTTTTTCTCTCTCTCTCTAGTATTCTAAACTGACCCCATGACCAACTGAGAATTTATTTTTGTTTC
ATTGGTTGTTTCACAGAATTAGAACACACAGCACTTTTTATTCTCCATTGCAAAATGGAATCAAGATACTACAC
AAGACCTGTGCTTTCTTCTTTGTCATGATTTACACCTCCGCCTGTTTTGGTGCTAGCTGTCTAGAACTTCTCTCT
TGGTTTGAATCTGATTCCTTCACTACACTAGAAAGTTTATTTTCATCTTGTTTTGTCTAGACTCCAGATACAGAG
GGACAGCTGGACTGAGGACAAGCAATTCATCTAGCATAGGGTCTCTCAGGGTTGGTGCATCCAGCCACATGGGC
AGGGCCAGTCACATCTAGTCTATGTCCCAGAGCCCTTGAGTTGCGCAGCTTAGCTGACTTGACTCCAAGGAAA
TTAGTACAGAAGTAACCACTCTATTAAGTGTGTTCTGCTATGTTTACATGCCTGTAGTACCTGCAAACCATGCCA
GGTTCATCTAAAGACATAGGGGAAGATTAAGGACTCTTTTGGACAGACCATGAATTGAATTTGCTGCCAGGTGCT
GCCAGACTGAATTTGGCTGACAGAATCCAGCCCAGGAAAGTTCCATGACAAATGACTGTGCGAGAAGGAAATTT
CCCCTAAAGTCAGTCCATTTTCAAGTTTTGGTCTTTCAGAGACAAAAGAACGTCCCAGCCACCTGATTTTGATGG
TGAGGTAACCTCTAAGTTGAATTCAGGCTAGTGTTGAGTATAGCTTTGGCATGTTTATGAGTGAGCACCAGAAAT
GTGTTGAACCAACCCCCACCCCTAACTACTGACTATGACTGCAGTGGGTTTTTATGGGGAAAAAAGTGTGAAAA
GCAAAAAAGAAAGGAACAGAGATTTTTTATCACCTTTATTGTAAGACAGTCCATTTATGAATTGAGTATAAACACA
TACAAAAGTAACAAGAGATTCTAAGAAACGCAAATCCTTGAGTTTACGCACTTCATGTTCAACCATTTGCTGTA
ATCCAGAGGCAGCCTGTGAATCATTCTCATGCCCTGTTTTTTTTGTTTTTTTTTCTATAATGTTCTGGGTTTTAA
AGCCATCTTTTCCACATTTTCTGTAAATAATGGATAATCATTTTAAAAAATTTATTTTTAGTGCTGTTTTAACA
ATGTAGATAGATCATAAATGTACTTGCTGAATTCATCATTTTAAACAAGCCAATAAAGTTTGATAATTCATCTC
CAA

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FIGURE 1432

MSSWIRWHGPAMARLWGFCWLTVGVFWRAAFACPTSCCKCSASRIWCSDPSPGIVAFPRLEPNSVDPENITEIFIAN
QKRLEIINEDDVEAYVGLRNLTIVDSGLKFVAHKAFLKNSNLQHINFTRNKLTSLSRKHFRHLDLSELILVGNPF
TCSCDIMWIKTLQEAKSSPDTQDLYCLNESSKNIPLANLQIPNCGLP SANLAAPNLTVEEGKSITLSCSVAGDPV
PNMYWDVGNLVSKHMNETSHTQGSLRITNISSDDSGKQISCVAENLVGEDQDSVNLTVHFAPTITFLESPTSDDH
WCIPFTVKGNPKPALQWFYNGAILNESKYICTKIHVTNHTEYHGCLQLDNPTHMNGDYTLIAKNEYGKDEKQIS
AHFMGWPGIDDGANPNYPDVIEDYGTAAANDIGDTTNRSEIPSTDVTDKTGREHLSVYAVVVIASVVGFCLLVM
LFLKLARHSKFGMKGFVLFHKIPLDG

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FIGURE 1433

GGGCGCGGCGCCGGAGGAGGAAGTGGTGAGGTTGTTGCTCCTTCAGCGCCTATCGCTGGCTCTTGGGGCGCAGAG
AGGGGCCGAGTCTCCGCGGCTGCGTCGAGCTCCCTTGAGTCCCCTCCATGTTCCCCGGCGCCTACTACTCCCCT
TCCTAAGGCCGCCGCTTACCCCGGGTCTATGGAAGTAATGGAAGGACCCCTCAACCTGGCTCATCAACAGAGCA
GACGAGCAGACCGTTTATTAGCTGCAGGCAAATACGAAGAGGCTATTTCTTGTCACAAAAAGGCTGCAGCATATC
TTTCTGAAGCCATGAAGCTGACACAGTCAGAGCAGGCTCATCTTTCACTGGAATTGCAAAGGGATAGCCATATGA
AACAGCTCCTCCTCATCCAAGAGAGATGGAAAAGGGCCCAGCGTGAAGAAAGATTGAAAGCCCAGCAGAACACAG
ACAAGGATGCAGCTGCCCATCTTCAGACATCTCACAAACCCTCTGCAGAGGATGCAGAGGGCCAGAGTCCCCTTT
CTCAGAAGTACAGCCCCTTCCACAGAGAAATGCCTGCCTGAGATTACAGGGGATCTTTGACAGGGATCCAGACACAC
TACTTTATTTACTTCAGCAAAAGAGTGAGCCAGCAGAGCCATGTATTGGAAGCAAAGCCCCAAAAGATGATAAAA
CAATTATAGAGGAGCAGGCAACCAAAATTGCAGATTTGAAGAGGCATGTGGAATTCCTTGTGGCTGAGAATGAAA
GATTAAGGAAAGAAAATAAACAACTAAAGGCTGAAAAGGCCAGACTTCTAAAAGGTCCAATAGAAAAGGAGCTGG
ATGTAGATGCTGATTTTGTAGAAACGTCAGAGTTATGGAGCTTGCCACCACATGCAGAAACTGCTACAGCCTCCT
CAACCTGGCAGAAGTTTCGCAGCAAATACTGGGAAAGCCAAGGACATTCCAATCCCCAATCTTCCTCCCTTGGATT
TTCCATCTCCAGAACTTCCTCTTATGGAGCTCTCTGAGGATATTCTGAAAGGACTTATGAATAATTAATGGA
GGCCACAGAAAAGGGGAAAAGAGGAAATAATACAGTAATCGTTAATCCAGCAAAAAGAAATGAAAAGGGAAAACC
ACATAGAAGGGTAATCCCGGAAATGCTTCATCTGGTGGACTGTGGGAGCAGAGGCATTGCCAGGACTTGGGAAAC
AGTCACTGTGAAATGCGCTGCGTATCTCATTCACTCACTTCAGCTAATGACTCCGACTTGGCAGACGCTAAACTC
ATGGAGGTTTCGTTTCTCCTGATACAAACCAATGGCTACCTGGAAGAATTTCTTTCAAGCAACAGTTATTTTTC
TTATCTTCAGGGTTAAAATGTATAAAAGTTATGTGTAATTAATCTATAATGCCATAAATGATAATGCAAAACCTA
AATAATATGGTGGCCGGAGGGGCTGCCTTATATTTGAAACATGCTTTCTATCATGCATTGACTGTATGCATTTTG
TTAATGCACATTCTGTTTGTGTTAAGGTGTGTGAGATACACACCTTTCTAGATGAAACTATATGTGCCACACTTG
CACTACTCATAATGATAACCTCAAGACTATCAGAAGAAATATTTAAATTTCCATTTTATGAAGAAAGGAACCAAA
TTATTATGCTTTTTAAAACAAATTACCAGTTTACATAATTAATCAGGGTGCATTTTAAGTTCTAACTTCGTTTAT
TGTATAATGCATCATTTGAAAATACCAAGGAGGAAATACCCTTTGTTTTTAATGATGCAAGAGTGGACGTAATGC
TAGTTGGCAGTATTTTATTGTAAGAAATCAATAAAGTAATTGTGTTTTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1434

MEVMEGPLNLAHQQSRRADRLLAAGKYEEAISCHKKAAAYLSEAMKLTQSEQAHLSELELQRD SHMKQLLLIQERW
KRAQREERLKAQQNTDKDAAAHLQTS HKPSAEDAEGQSPLSQKYS PSTEKCLPEIQGIFDRDPDTLLYLLQOKSE
PAEPCIGSKAPKDDKTIIIEEQATKIADLKRHVEFLVAENERLRKENKQLKAEKARLLKGPIEKELDVDAD FVETS
ELWSLPPHAETATASSTWQKFAANTGKAKDIPIPNLPPLDFPSPELPLMEELSE DILKGLMNN

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FIGURE 1435

AAATTGCAGAAAGTTACTTATTCTTTTAAGAGGTCTGCCTGGTTCTGGGAAAACAACATTGTCTCGAATTCTGCTT
GGTCAGAATCGTGATGGCATTGTGTTTCAGCACTGATGACTATTTTCACCATCAAGATGGGTACAGGTATAATGTT
AATCAACTTGGTGATGCCCATGACTGGAACCAGAACAGAGGTTTGTGTTTGGGCTAAGTGTCACAGGATAGAATAT
TTGGCTAGGAGTCAAAAGACCTAGATTTTATTTTTCAGCTTAGGTTTTTACCAGCTGAATGACTGTAGGCAAGCCG
TTTAAATAGCTTTGAGACCTAATTTCTCCATCTGTTAGAGGTGGTGATAATTATACTTGCCCTACCTGATCAGGG
TTTTTGTGAAAAGCAGAGAATTTAGATAAAACGCTTTGTAACTGTAAATAGTTTATCAGTATAAGCTGGTAAAA
TAATAGCAGCATGGGATATTTTAAGAGGCTTTATTTTATACTTGATGAGTAAATTCAGAGAACTTTGAATCTGTA
CCATTGTTATGTAGTCCCAAAGTTATTTCCCGAGAATAATGCTAATGTTTTCCAAGGCTTAATATACTGGTTGT
GAATATTAAAAAGTTTTTCTCATTGATATTGCTCTACAAGAAACCTACTTAATACATTTTTTAGCGGACATGGGTC
AATTTCTGTTTATCATTAAATAGGGGTTCTTAACTGGGCTACACTTTTGAATTTCTTGGGGACTTTAAAAAAAG
CAAAAAAATCTATGTCGGGTGCGGAGAAAGAGGTAATGAAATGGCAGAATTCGATAGCAAGCTTATC

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FIGURE 1436

KLQKLLILLRGLPGSGKTTLSRILLGQNRDGIVFSTDDYFHHQDGYRYNVNQLGDAHDWNQNRGLFWAKCPRIEY
LARSQKT

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FIGURE 1437

CGCTGGGAATCCTGCTCCTCCTCAGGTCCTGGCAAGTTTCAGGGCCCCCTCCCTAGGCCTTACTTAAAAGGCTGAG
GCATCCTTGGAGGAACAGGCAGACTCCACAGCTCCCGCCAGGAGAAAGGAACATTCTGAGGGGAGTCTACACCCCT
GTGGAGCTCAAGATGGTTCCTGAGTGGGGCGCTGTGCTTCCGAATGAAGGACTCGGCATTGAAGGTGCTTTATCTG
CATAATAACCAGCTTCTAGCTGGAGGGCTGCATGCAGGGAAGGTCAATTAAGGTGAAGAGATCAGCGTGGTCCCC
AATCGGTGGCTGGATGCCAGCCTGTCCCCCGTCATCCTGGGTGTCCAGGGTGGAAGCCAGTGCCGTGTCATGTGGG
GTGGGGCAGGAGCCGACTCTAACACTAGAGCCAGTGAACATCATGGAGCTCTATCTTGGTGCCAAGGAATCCAAG
AGCTTCACCTTCTACCGGCGGGACATGGGGCTCACCTCCAGCTTCGAGTCCGGCTGCCTACCCGGGCTGGTTCCCTG
TGCACGGTGCCTGAAGCCGATCAGCCTGTGAGACTCACCCAGCTTCCCGAGAATGGTGGCTGGAATGCCCCCATC
ACAGACTTCTACTTCCAGCAGTGTGACTAGGGCAACGTGCCCCCAGAACTCCCTGGGCAGAGCCAGCTCGGGTG
AGGGGTGAGTGGAGGAGACCCATGGCGGACAATCACTCTCTCTGCTCTCAGGACCCCCACGTCTGACTTAGTGGG
CACCTGACCACTTTGTCTTCTGGTTCCTCAGTTTGGATAAATTCTGAGATTTGGAGCTCAGTCCACGGTCTCCCC
CACTGGATGGTGCTACTGCTGTGGAACCTTGTA AAAACCATGTGGGGTAACTGGGAATAACATGAAAAGATTTT
TGTGGGGTGGGGTGGGGGAGTGGTGGGAATCATTCTGCTTAATGGTAACTGACAAGTGTTACCCTGAGCCCCG
CAGGCCAACCCATCCCCAGTTGAGCCTTATAGGGTCAGTAGCTCTCCACATGAAGTCCTGTCACTCACCCTGTG
CAGGAGAGGGAGGTGGTCATAGAGTCAGGGATCTATGGCCCTTGGCCAGCCCCACCCCTTCCCTTTAATCCTG
CCACTGTCATATGCTACCTTTCCTATCTCTTCCCTCATCATCTTGTGTGGGCATGAGGAGGTGGTGATGTCAGA
AGAAATGGCTCGAGCTCAGAAGATAAAAGATAAGTAGGGTATGCTGATCCTCTTTTAAAAACCCAAGATACAATC
AAAATCCCAGATGCTGGTCTCTATTCCCATGAAAAAGTGCTCATGACATATTGAGAAGACCTACTTACAAAGTGG
CATATATTGCAATTAATTTTAATTA AAAAGATACCTATTTATATATTTCTTTATAGAAAAAGTCTGGAAGAGTT
TACTTCAATTGTAGCAATGTCAGGGTGGTGGCAGTATAGGTGATTTTTCTTTTAATTCTGTTAATTTATCTGTAT
TTCCTAATTTTCTACAATGAAGATGAATTCCTTGATAAAAAATAAGAAAAAGAAATTAATCTTGAGGTAAGCAGA
GCAGACATCATCTCTGATTGTCCTCAGCCTCCACTTCCCCAGAGTAAATTCAAATTGAATCGAGCTCTGCTGCTC
TGGTTGGTTGTAGTAGTGATCAGGAAACAGATCTCAGCAAAGCCACTGAGGAGGAGGCTGTGCTGAAGTTGTGTG
GCTGGAATCTCTGGGTAAAGGAACCTAAAGAACA AAAATCATCTGGTAATTCTTTCCTAGAAGGATCACAGCCCT
GGGATTCCAAGGCATTGGATCCAGTCTCTAAGAAGGCTGCTGTACTGGTTGAATTGTGTCCCCCTCAAATTCACA
TCCTTCTTGGAAATCTCAGTCTGTGAGTTTATTTGGAGATAAGGTCTCTGCAGATGTAGTTAGTTAAGACAAGGTC
ATGCTGGATGAAGGTAGACCTAAATTCAATATGACTGGTTTCCTTGTATGAAAAGGAGAGGACACAGAGACAGAG
GAGACGCGGGGAAGACTATGTAAAGATGAAGGCAGAGATCGGAGTTTTGCAGCCACAAGCTAAGAAACACCAAGG
ATTGTGGCAACCATCAGAAGCTTGGAGAGGCAAGAAGAATTCTTCCCTAGAGGCTTTAGAGGGATAACGGCTC
TGCTGAAACCTTAATCTCAGACTTCCAGCCTCCTGAACGAAGAAAGAATAAAATTTCCGGCTGTTTTAAGCCACCAA
GGATAATTGGTTACAGCAGCTCTAGGAACTAATACAGCTGCTAAATGATCCCTGTCTCCTCGTGTTTACATTC
TGTGTGTGTCCCCCTCCCAATGTACCAAAGTTGTCTTTGTGACCAATAGAATATGGCAGAAGTGATGGCATGCC
ACTTCCAAGATTAGGTTATAAAAGACACTGCAGCTTCTACTTGAGCCCTCTCTCTCTGCCACCCACCGCCCCCAA
TCTATCTTGGCTCACTCGCTCTGGGGGAAGCTAGCTGCCATGCTATGAGCAGGCCTATAAAGAGACTTACGTGGT
AAAAAATGAAGTCTCCTGCCACAGCCACATTAGTGAACCTAGAAGCAGAGACTCTGTGAGATAATCGATGTTTG
TTGTTTTAAAGTTGCTCAGTTTTGGTCTAACTTGTTATGCAGCAATAGATAAATAATATGCAGAGAAAGAGAAAA
AAAAAAAAAAAAAAAAAAAAA

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FIGURE 1438

MVLSGALCFRMKDSALKVLYLHNNQLLAGGLHAGKVIKGEESISVVPNRWLDASLSPVILGVQGSQCLSCGVGQE
PTLTLEPVNIMELYLGAKESKSFTFYRRDMGLTSSFESAAYPGWFLCTVPEADQPVRTQLPENGAWNAPITDFY
FQQCD

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FIGURE 1439A

AGCGATCCGAGGCCCGCCCCGGCCCCGCCCCGCGCCGCGCCGCGCCGCTTGCCGCCGGGCTAGCACTGACGTGT
CTCTCGGCGGAGCTGCTGTGCAGTGGAACGCGCTGGGCCGCGGGCAGCGTCGCCTCACGCGGAGCAGAGCTGAGC
TGAAGCGGGACCCGGAGCCCCGAGCAGCCGCGCCCATGGCAATCAAATTTCTGGAAGTCATCAAGCCCTTCTGTGT
CATCCTGCCGGAATTCAGAAGCCAGAGAGGAAGATTTCAGTTTAAGGAGAAAGTGCTGTGGACCGCTATCACCCCT
CTTTATCTTCTTAGTGTGCTGCCAGATTCCCCTGTTTGGGATCATGTCTTCAGATTACAGCTGACCCTTTCTATTG
GATGAGAGTGATTCTAGCCTCTAACAGAGGCACATTGATGGAGCTAGGGATCTCTCCTATTGTCACGTCTGGCCCT
TATAATGCAACTCTTGGCTGGCGCCAAGATAATTGAAGTTGGTGACACCCCCAAAAGACCGAGCTCTCTTCAACGG
AGCCCCAAAAGTTATTTGGCATGATCATTACTATCGGCCAGTCTATCGTGTATGTGATGACCGGGATGTATGGGGA
CCCTTCTGAAATGGGTGCTGGAATTTGCCTGCTAATCACCATTTCAGCTCTTTGTTGCTGGCTTAATTGTCCTACT
TTTGGATGAACTCCTGCAAAAAGGATATGGCCTTGGCTCTGGTATTTCTCTCTTCATTGCAACTAACATCTGTGA
AACCATCGTATGGAAGGCATTTCAGCCCCACTACTGTCAACACTGGCCGAGGAATGGAATTTGAAGGTGCTATCAT
CGCACTTTTCCATCTGCTGGCCACACGCACAGACAAGGTCCGAGCCCTTCGGGAGGCGTTCTACCGCCAGAATCT
TCCCAACCTCATGAATCTCATCGCCACCATCTTTGTCTTTGCAGTGGTCATCTATTTCCAGGGCTTCCGAGTGG
CCTGCCAATCAAGTCGGCCCGCTACCGTGGCCAGTACAACACCTATCCCATCAAGCTCTTCTATACGTCCAACAT
CCCCATCATCCTGCAGTCTGCCCTGGTGTCCAACCTTTATGTCTATCTCCAAATGCTCTCAGCTCGCTTCAGTGG
CAACTTGCTGGTCAGCCTGCTGGGCACCTGGTCCGACACGTCTTCTGGGGGCCAGCACGTGCTTATCCAGTTGG
TGGCCTTTGCTATTACCTGTCCCCTCCAGAATCTTTTGGCTCCGTGTTAGAAGACCCGGTCCATGCAGTTGTATA
CATAGTGTTCATGCTGGGCTCCTGTGCATTCTTCTCCAAAACGTGGATTGAGGTCTCAGGTTCCCTCTGCCAAAGA
TGTTGCAAAGCAGCTGAAGGAGCAGCAGATGGTGATGAGAGGCCACCGAGAGACCTCCATGGTCCATGAACCTCAA
CCGGTACATCCCCACAGCCGCGGCCCTTTGGTGGGCTGTGCATCGGGGCCCTCTCGGTCTGGCTGACTTCCTAGG
CGCCATTGGGTCTGGAACCGGGATCCTGCTCGCAGTCACAATCATCTACCAGTACTTTGAGATCTTCGTTAAGGA
GCAAAGCGAGGTTGGCAGCATGGGGGCCCTGCTCTTCTGAGCCCGTCTCCCGACAGGTTGAGGAAGCTGCTCCA
GAAGCGCTCGGAAGGGGAGCTCTCATCATGGCGCGTGTGCTGCGGCATATGGACTTTTAATAATGTTTTTGAA
TTTCGTATTCTTTCATTCCACTGTGTAAAGTGCTAGACATTTTCCAATTTAAAATTTTGCTTTTTTATCCTGGCAC
TGGCAAAAAGAACTGTGAAAGTGAAATTTTATTTCAGCCGACTGCCAGAGAAGTGGGAATGGTATAGGATTGTCCC
CAAGTGTCATGTAACCTTTTGTTTTAACTTTTGACCTTCTCAGTGCTGTATGCGGCTGCAGCCGCTCTCACCTGT
TTCCCCACAAAGGGAATTTCTCACTCTGGTTGGAAGCACAAACACTGAAATGTCTACGTTTCATTTTGGCAGTAG
GGTGTGAAGCTGGGAGCAGATCATGTATTTCCCGGAGACGTGGGACCTTGCTGGCATGTCTCCTTACAAATCAGG
CGTGGGAATATCTGGCTTAGGACTGTTTCTCTCTAAGACACCATTGTTTTCCCTTATTTTAAAAGTGATTTTTTT
AAGGACAGAACTTCTTCCAAAAGAGAGGGATGGCTTTCCAGAAGACACTCCTGGCCATCTGTGGATTGTCTGT
GCACCTATTGGCTCTTCTAGCTGACTCTTCTGGTTGGGCTTAGAGTCTGCCTGTTTCTGCTAGCTCCGTGTTTAG
TCCACTTGGGTCATCAGCTCTGCCAAGCTGAGCCTGGCCAAGCTAGGTGGACAGACCCTTGCAAGTATGTCCGTT
TGTCAGATTCTGCCAGTCATCACTGGACACGTCTCCTCGCAGCTGCCCTAGCAAGGGGAGACATTGTGGTAGCT
ATCAGACATGGACAGAACTGACTTAGTGCTCACAAGCCCTACACCTTCTGGGCTGAAGATCACCCAGCTGTGT
TCAGAAATTTCTTACTGTGCTTAGGACTGCACGCAAGTGAGCAGACACCACCGACTTCCTTTCTGCGTCACCAGT
GTCGTCAGCAGAGAGAGGACAGCACAGGCTCAAGGTTGGTAGTGAAGTCAGGTTCCGGGTGCATGGGCTGTGGTG
GTGTTGATCAGTTGCTCCAGTGTTTGAATAAGAAGACTCATGTTTATGTCTGGAATAAGTTCTGTTTGTGCTGA
CAGGTGGCCTAGGTCCTGGAGATGAGCACCTCTCTCTGGCCTTTAGGGAGTCCCCTCTTAGGACAGGCACTGCC
CAGCAGCAAGGGCAGCAGAGTTGGGTGCTAAGATCCTGAGGAGCTCGAGGTTTCGAGCTGGCTTTAGACATTGGT
GGGACCAAGGATGTTTTGCAGGATGCCCTGATCCTAAGAAGGGGGCCTGGGGGTGCGTGCAGCCTGTCCGGGAGA
CCCCACTCTGACAGTGGGCACACGGCAGCTGCAAAGCACAGGGCCACCGCCACAGCCCGGCAGAGGGGCACACT
CTGGAGACCTTGCTGGCAGTGCTAGCCAGGAAACAGAGTGACCAAGGGACAAGAAGGGACTTGCCCTAAAGCCACC
CAGCAACTCAGCAGCAGAACCAAGATGGGCCCCAGGCTCCTCCATATGGCCAGGGCTTACCACCCTATCACAG
TGGCCTTGCTAGACCCAGTCTTGAGCAGGGGAGAGGCTCTTGAGACCTGATGCCCTCTACCCACATGGTTCTC
CCACTGCCCTGTCTGCTCTGCTGCTACAGAGGGGCAGGGCCTCCCCAGCCACGCTTAGGAATGCTTGCCTCTG
GCAGGCAGGCAGCTGTACCAAGCTGGTGGGCAGGGGGCTGGAAGGCACCAGGCTCAGGAGGAGCCCCATAGTC
CCGCTGCAGCCTGTAACCATCGGCTGGGCCCTGCAAGGCCACACTCACGCCCTGTGGGTGATGGTCACGGTGG
GTGGGTGGGGGCTGACCCAGCTTCCAGGGGACTGTCACTGTGGACGCCAAAATGGCATAACTGAGATAAGGTGA

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FIGURE 1439B

ATAAGTGACAAATAAAGCCAGTTTTTTACAAGGTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1440

MAIKFLEVIKPFVCVILPEIQKPERKIQFKEKVLWTAITLFI FLVCCQIP LFGIMSSDSADPFYWMRVILASNRGT
LMELGISPIVTSGLIMQLLAGAKIIEVGDTPKDRALFNGAQLFGMIITIGQSIVYVMTGMYGDPSEMGAGICLL
ITIQLFVAGLIVLLLLDELLQKGYGLGSGISLFIATNICETIVWKAFSPTTVNTGRGMEFEGAIIALFHLLATRTD
KVRALREAFYRQNLPLNMNLIATIFVFAVVIYFQGFRVDLPIKSARYRGQYNTYPIKLFYTSNIPILQSALVSN
LYVISQMLSARFSGNLLVSLLGTWSDTSSGGPARAYPVGGLCYLSPPESFGSVLEDPVHAVVYIVFMLGSCAFF
SKTWIEVSGSSAKDVAKQLKEQQMVMRGHRETSMVHELNRYIPTAAAFGGLCIGALSVLADFLGAIGSGTGILLA
VTIIYQYFEIFVKEQSEVGSMGALLF

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FIGURE 1441

GAAGGTCACACAGCGCGGCAGCGGGTCTGGCTGGCGGCAGCGCGGGAGGGAGCCGAGAGACCCGAGTGCACGTGT
GGAGAAGCGCGCGGCACAAGCGCGCGCGCGGGAGACACTCCCGCCCCACCAGACTCAAGCCCTCACTCGACTCTC
GCGGCCCTTCGTTGCTCGCACAGCTCCCTGCCAGGCTAGGAGGCCGGCTTGCGGGGTTGAGTGGCCCGAGCTAAG
GGTGCGGAGACCTAAGGGCGGCGACTACGACGGCGTTGATATCGGTGGTAACGACGGCCTCAGCAGGCGGGGAAG
ATGAAAAGGTAGCCGGATCGAGCTGGGAGATGTGACACCACACAATATTAAACAGTTGAAAAAGATTGAATCAGGTC
ATCTTTCCAGTCAGCTACAATGACAAGTTCACAAGGATGTGCTGGAGGTTGGCGAGCTAGCAAACTTGCCTAT
TTCAATGATATTGCTGTAGGTGCAGTATGCTGTAGGGTGGATCATTACAGAAATCAGAAGAGACTTTACATCATG
ACACTAGGATGTCTGGCACCTTACCAGAGGCTAGGAATAGGAACTAAAATGTTAAATCATGTCTTAAACATCTGT
GAAAAAGATGGTACTTTTTGACAACATTTATCTGCATGTCCAGATCAGCAATGAGTCGGCAATTGACTTCTACAG
AAGTTTGGCTTTGAGATTATTGAGACAAAGAAGAACTACTATAAGAGGATAGAGCCCGCAGATGCTCATGTGCTG
CAGAAAAACCTCAAAGTTCCTTCTGGTCAGAATGCAGATGTGCAAAAGACAGACAAC**TGA**ACAAATTACAAATGA
ACTTTCCTTGCACTTGCTTGTCGCCAAATAAAAGAGAGGGCCATTGATTCCCTCCCCACCCCAACACTTTTCTTTT
AAAGCTTTTCTCCCTCCCTTGTTCTTGTCTTTCTTTCTTCTTCTTCTTCTTCTGAGAGTTTTAATACTTTCAAGG
ACTTTAAAAAATAATCATGTTTGAATTGTTTTCTCTTATTTTTGTGAGGTGGTTTGAAGGAAGGACAAGGTAGA
TCTGTTTAGTTTTGCAGTTGAAGTTAGATGGTCCTAAACATTTAATTGTCAAATAATTTCAAATTTAATGTCCTG
CTTTCACATTGAAGGGCAGAGCCTACAAAACATTGTATATTTCAAAGACAAAAAGAAGCAGCAGCAGTATCTTG
TTCTCTAATTCATAGACAAGTTGAGTGTGTTTGTGGTACTTTGGGTTTTTAAACACTTTGGGATACTAATCCCTA
GACATTGCCTTCACTCCACCTTTAGTCTTCTGAGCACTCTCTCGGGAGTTGGAACATTGTTATCCTTGTAAGAA
ATACTAAGCTTATGTTGATTTTTAAGTAATTATATCTTCTCTTCTTCTGCTGGTGGGTGGGGCAGTTTGGTTTAGTG
TTATACTTTGGTCTAAGTATTTGAGTTAAACTGCTTTTTTGTCTAATGAGTGGGCTGGTTGTTAGCAGGTTTGGTTT
TTCTGCTGTTGATTGTTACTAGTGGCATTAACTTTTAGAATTTGGGCTGGTGAGATTAAATTTTTTTAATATCC
CAGCTAGAGATATGGCCTTTAACTGACCTAAAGAGGTGTGTTGTGATTTAATTTTTTCCCGTTCCTTTTTCTTCA
GTAAACCCAAACAATAGTCTAACCTTAAAAATTGAGTTGATGTCTTATAGGTCCTACCCCTAAATAAACCTGAA
GCAGGTGTTTTCTCTTGACATACTAAAAAATACCTAAAAGGAAGCTTAGATGGGCTGTGACACAAAAAATTCAA
TTACTGTCACTAATGCCAGCTGTTAAAAAGTGTGGCCACTGAGCATTTGATTTTTATAGGAAAAAATAGTATTTTT
GAGAATAACATAGCTGTGCTATTGCACATCTGTTGGAGGACATCCAGATTTGCTTATACTCAGTGCCTGTGATA
TTGAGTTTAAGGATTTGAGGCAGGGGTAATTATTAAACATATTGCTTCTATTCTTGGAAAAATAGAAGTGTAATA
TGTTAATAATACAAATGTCACTGTGACCTCCTCCACTGTGAGGACTGGTTTATGCCAGATCATTITCCGGCACAC
ACGGAGTGGCTTTGACAGATTGATAACTTTGTAAGATGGGAGACATCTGAAATATTATGTTTTCTTTTGTAGT
CCCATCTCCACTATTTAGAAATGTTCTCAGACTTTAAAAATAATGCACAGGGCTTGAGCTTTCTGTCAATTTGACTT
TAAAAGGAAGTTTCATTCAATTTATCCTCTTATGTAAAAATTGCGGTATAAAGTCTCATTTCCAAATATGTTAAA
TGACAAAAATTATTTTATAAAATGTTTATGCACACTTTTATAACCTTAAAGTTTTTATTGAGAATGTGAAAGTACAA
AGTGCAGTAGACTTCAACAACTCTGAGTGCCAAGAATAATACAGAAAAAGAAGACAGTTGATGAATGAGTTTATA
GGGTTCTAATCTTAAGATGGTAAAAATGTAGAAAGACCTTGCTGGTTTTTTGGGGGTATTGTTTTCTTAAACAAT
CCAAATCTAAGCTTAGAAGAAAAGTTTAGCGTTAAGCACCTTTATCTTCATGAATAAGCTTCAGCTTGCTCTTG
CAAGAGAAGAGTGCTTGAGTTACAGAAGGCATAAGTAGTTTGAAGAATGCAGCAGCCTTTTTGTAAACTTCCAG
ATATCAAAATAGACTTTGATATATAAATGGTTTTCTGAGATGACACTGCCTCTATTCTATAACCATTTCACCTG
GACTATCTAACCAGTCTATGAATGTATCCCTAAATGTGGTTATTGAAAACCTAATAGCTGCCTCATGACAAGTA
CATGTTATTTAAGGAGGAAAAAATATTAAATTTTGAATTGAGTGTGTAGGCTCCCTATCATTATATATAGAGTTT
CTTTTTCCACGGTAGTCAGTGACTTAACTTGAATTGTAAATGTTTGTAAAGGGTTAATTGTCCATACATCAAACCT
AGTTAAATAAATCCATCCACTTATGGAGGAGGAGGAGAATGTGGAAGAGGTAAAAAGCTGGGCACAAGTTCATAT
GCCTATGAGTCAGTAAAGACTGAAGTAATGTCCCTATGTTGAGCTGGTTATTTTGATATATGATAATAATTATCTT
TGAAGTAGAACAAATCTGTTAACTGGAAAAATCACAGGATATATCCATCATATTTTTTCAGGACAGATAGTTTTTAC
TGTGGGGCAAATAGGTTAAAAATTACACTATGTTAGTTGCATTTAGGTTTTTAAAGCAAAGAACTGTAGAGAAATC
TATGCAATATATAGTTTGTCCAGATTAGCTTTCAATTTGGGGAATGAAGTTCTGAAATATCTAAAGCAGTTTACTC
ATCAATTGAAAAGTCCCTCCAAAAAGAGAACTATTGGGAAACCATGGTGTGGTGGTGGAAAAAGAAAAGCTCCCTCA
GTTTTTTGGAGGGAATAACTTAAAAAAATACTTAAATGGCTAAGTTTACTTGGTGCAGTTAAGAATTAAACTTGT
CAATTTTTAACATTGCTGTTACATCTGAAATAAACTTATGTGATGTTCTGGT

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FIGURE 1442

MKGSRIELGDVTPHNİKQLKRLNQVIFPVSYNDKFYKDVLEVGE LAKLAYFNDIAVGAVCCRVDHSQNQKRLYIM
TLGCLAPYRRLGIGTKMLNHVLNICEKDGTFDNIYLHVQISNES AIDFYRKFGFEI IETKKNYKRIEPADAHVL
QKNLKVPSGQNADVQKTDN

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FIGURE 1443

GCCGGGTGGATGGTACTGCTGCATCCGGGTGTCTGGAGGCTGTGGCCGTTTTGTTTTCTTGGCTAAAAATCGGGGG
AGTGAGGCGGGCCGGCGCGCGCGACACCGGGCTCCGGAACCACTGCACGACGGGGCTGGACTGACCTGAAAAAA
ATGTCTGGATTTCTAGAGGGCTTGAGATGCTCAGAATGCATTGACTGGGGGGAAAAGCGCAATACTATTGCTTCC
ATTGCTGCTGGTGTACTATTTTTTACAGGCTGGTGGATTATCATAGATGCAGCTGTTATTTATCCCACCATGAAA
GATTTCAACCACTCATACCATGCCTGTGGTGTATAGCAACCATAGCCTTCCTAATGATTAATGCAGTATCGAAT
GGACAAGTCCGAGGTGATAGTTACAGTGAAGGTTGTCTGGGTCAAACAGGTGCTCGCATTGTTGGCTTTTCGTTGGT
TTCATGTTGGCCTTTGGATCTCTGATTGCATCTATGTGGATTCTTTTTGGAGGTTATGTTGCTAAAGAAAAAGAC
ATAGTATACCCTGGAATTGCTGTATTTTTCCAGAATGCCCTTCATCTTTTTTGGAGGGCTGGTTTTTAAGTTTGGC
CGCACTGAAGACTTATGGCAGTGAACACATCTGATTTCCACAGCACAAACAGCCCTGCATGGGTTTTGTTTGT
TTTACTGCTCACTCCCAACCTTTTGTAAATGCCATTTTCTAAACTTATTTCTGAGTGTAGTCTCAGCTTAAAGTTG
TGTAATACTAAAAATCACGAGAACACCTAAACAACAACCAAAAAATCTATTGTGGTATGCACTTGATTAACCTTATAA
AATGTTAGAGGAACTTTTACATGAATAATTTTTGTCAAATTTTATCATGGTATAATTTGTAAAAATAAAAAGAA
ATTACAAAAGAAATTATGGATTTGTCAATGTAAGTATTTGTCAATCTGAGGTCCAAAACCACAATGAAAGTGCT
CTGAAGATTTAATGTGTTTATTCAAATGTGGTCTCTTCTGTGTCAAATGTTAAATGAAATATAAACATTTTTTAG
TTTTTAAATATTCCGTGGTCAAATTTCTTCTCACTATAATTGGTATTTACTTTTACCAAAAATTTCTGTGAACA
TGTAATGTAAGTGGCTTTTGGAGGTCTCCAAGGGGTGAGTGGACGTGTTGGAAGAGAGAAGCACCATGGTCCAG
CCACCAGGCTCCCTGTGTCCCTTCCATGGGAAGGTCTTCCGCTGTGCCTCTCATTCCAAGGGCAGGAAGATGTGA
CTCAGCCATGACACGTGGTTCTGGTGGGATGCACAGTCACTCCACATCCACCATTGAAGGAAAGGAAAAAAGGGC
AGAGACTTGACACTCCAGTCTTAGACAGGGGACAATTTCTTTGTAGTTGTTCTGATAATAAACTGGGTTCCATGT
TGCATTTCTATCTGTGTACTGAACCACTAGCCTAATAGACCAGCACGGTCAACTAGAATGACAAACATTAGCTACT
GGGAACCTTTGTTGTCTCTTCTTCTTCCAGAACTCTTGTCCCCCAGGCTCCCCACCTCTGCAAGATGGGATACAC
TCTTCAGGACCACAGTTTGAAATGTCTTTTATAAAATGTGCTACAATTAGCCTTCGGAATATTTGCTGGGTGATT
TAAATGTGTGGGTCTCATTTCCATGCTAGCCATGGTCATCTGACAGTCTCTACGCTGTGAATATTGCCTGGTGAT
CAAGACTCTCCTCAAAGAAATGACTTGCTGTCTATCCACATGAACTCCTGATGTTTTTTCTACAAAAGTCCATAA
AATGTGAAAACCTGGAGAAGATCTTAGAGGTTGAAGCCACCTTCTCTTTTACATAGGAGGGAACAGACCATGGA
AATTTAAACGACTTCCTCACGGTCACAGAACTAGTTTTTTAATCCTCAGGCAGTGCATCCCCCACCCTACAAC
GAGCACAACCTCTTTCCCCACAGTGCAATTCAGAAATATGCTCAGGGAATGCCAGCCACCTTGTAACCTGCTGGG
AGAAAAGCATGATTCCCACAAGGACTAAGTATCAGTGATTTGTAATTTTCTGTTTTGTATTATCTGCTTTGCTG
ATGTAGACAAGAGTTAACTGAGTAGCATGCTTTATTAAGCATGAGAAAGAATCTTAAGAATTGTCAATAAAATTA
ACCCAAAACCTTTAATAATGTGTCTGTAACCAAGAAAAATATTGATAGCATCATCCTAATGAACTAAACATTTATT
TTAAACTTATTAAATTGACTCTTAACTAAAAAA

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FIGURE 1444

MSGFLEGLRCSECIDWGEKRNTIASIAAGVLFFFTGWWIIIDAAVIYPTMKDFNHSYHACGVIATIAFLMINAVSN
GQVRGDSYSEGCLGQTGARIWLFVGFMLAFGSLIASMWILFGGYVAKEKDIVYPGIAVFFQNAFIFFGGLVFKFG
RTEDLWQ

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FIGURE 1445A

CACCATTGAGCTGTTTTCCCTTGATGGCCACATGATTCTAGCATTTTTTTTTTTTTTGGTCAAAATATTCCCGGT
TCTGTAAAAATTTTCATTTTTAAATTAAACGGTGATGGATGAGCTATCATAATCCAAGTATACTTTTCTTTTTTCT
ATCAGATATCCATGGTCATGCAGTAGTAGTAAAAACATCCAAAGATGCCAGCAAGCCTTATTAAAGTATTATTTTC
CTAAAAGAAATAGGAGGCATTTTCATCTTTATTATTGTACTTTTGGTTATGCAAAACACTTTGATAATATAAACAG
TTATGTCCCTATAAAATCTGGTCAGCAACCTCTTTTGATTTTGTGGGTAAGTTAAATAGTCTGTAGTAGGTAGA
GTACTGGGTACAAGTGGTCCAAACTAAGATAAGAGACTAAAATAAAATGCTAAATCTTAAAAGAACTGGGTTTA
TGCATAAACGTTTTGTGCCCTGGTCTAATATTAACATGATGTATGTGTNNNNNNNNNNNNNNNNNNNNNNNN
NCCAGTGTTGAATCATGCTATATTTCCCATCATCCAGATTGCTAAATGTTCTTTCCAAGAAGTCTGAATGAATT
ATTATATACATTTGCTATCATACATGACAGTTGTGTTCATTATTAGAGATTTTCTAGTAATTAAAATGGGAAACAGAA
GCCTAAGTTATTTACCTTATCAAAACCACGTTTCTTGGGAACCACATTATTATGATGGTTTTTGTGCTCTTGTACG
TTGGATGTCTTAAAGCTGAGTACAGTTTAGGGGATCCTTTCTAATGACAGGAAGGCACTGCTTTCTCAACACTGT
GATCTGACCTGTGACAAGTCTGTACTATCCACTATGTAAATGGCTCACAAGTCAATTGCAAAACAACTGAATGTA
CAAACTTTAGTGCTGGTGCTGAAATCTCTTCAGAATAGTCATCATGATTTAAAAGTTTGTTTAAAATTTGCAAG
CATCAAGTGTCAATCAAACTGAAGATGAAACACTAATGAATGTTGAATTCTCATGCTTTTAGGTGTACTTCCTT
TTTGAATTTTCAGTTTCTGCTATTTTTACCGTAACTATTTTCGTTTAAATTTGTTTCATTTAAGTTTCCTACAT
GCTAACTTCGTTTGTGCGATTGAAATAAAATTGCAGTATATATATGTTGCTTGTGTGACACTTAGATAATCTT
CTGAAATAATTTGTTTAAAGTAAGTTATATTGGATGTGAAAAACACCTTTTAAAGTCCAAGACTTTACTACTTA
AAAGTTACATGTCACGTCCTATTCTTTACAGATTTCATAGAAGTCGTGAATACTAAGTAATGTATACAAAAGA
AATATGTGATGATGTGTCTACTTTTTGTTTGAATAACTGTTGGGTGTTCCCTCTTCTTATTTTCTCTCTGCCCA
CCTTGACACAGTAACTTCCTCTTATAGTCAAGATGATGATTAAGTGTTTAAATTTTATTCATTTTGTCTGCAA
CACGTTGAGATACTTAAACTCATTGATGAGTTAGAATTATCCTTTATGTAGTTTGCATGGTAAAGGACATTGT
GTGGTAAAGGGCATTATTGAGTAATGAATTTTAAAGTATAGCAAAATATGTATAGTGTTTATACATGATGCTGATT
TCTTAAACCTACATATAAGCAGTAGTACTTTTTCTCTATTATAAAGTATTAATTTTGAGTTCCATTTTATAATT
CTGATGTCTTCATTAGAAATACAAAATACAATCCTTGATTTTTTCTTTGACCAGACCCAAATTTTCCCCTTCC
CCCCTCATTCTCTCTCCACTTCTCGTGACCGCGTGTTCCCAATATTCATTAAACATTGTCAGCCATTACAGAG
TTACAGTTGTAAAATTTTTCAGCTGTTTTTTTTTTTTTGGTCTAGCCTGTCTCATGTTCTTGCTTCTCTTCATATGT
AAGTCAGTATTTTGTCTACAAATTAAGTCACTTGTTCATTCAAAAATGAGTTAAGTAACATGATAATCTTTTA
AATTTACCTAGCTACAACTTTTATGTCTCTTGTAATTTATATATACTTTTCAAGTCCATTGTGAAGAATTGGCCT
TTTAAATCTAAGTAGTATTACCCTATGAAGCACAGTGTGCAAGGTATGCTACAAGGTCTCTTTAATTCCTGTGT
GGCCATTATAATTTTATAACACCATTACCCTTTAAATTTTACCGATTATAAGCAGCGTAAAGTAAGTATATAAA
GCAAAACATCGCAAAGGAAGTCTGCAGGAGCTCTTAATTCCTTTATGTAGCTATCATAAAATTCACTTTCTGAAG
ACATTTACTCTCATTCACTTCCAACTCCAAACCTTTTTCTGGTAGCACCACCTTTTGTTTTTAATAGAAAGATGA
GTTTATATCTGTACATCTCTCCAAAGCTCTAAGGAATGAGAAAAGGATCCTAGTATATTGAAATTACTGATGTTT
AATACCTCTGCCCTTTTCACTAAAAGCCATTTAATATTTTTTAAAGTCAAACTTGACATACAGGTATTTATAAGGA
ATCTCCATGACTCTGAAGGAATGAAATTGATGTAGGTAGCTTTGGCTATGTAAAGACATAGTAGAGGACAATTAC
TTAAAGAAGAGTTTTTCTTTTGAGGATTTGTAGATTTGACTAAGCAGCTGAAGTCAGTAACCCCTCAAGAAAGGCC
GTTTATAGAAGCCAAGAACTGTTGGAGGCTGTGTATGCAGGTTTTTCTGTTCCCAACATCAAAAGCTGTGGATTA
TTTGGTGTGTCCCTTTTATGTTATCTCTCGATAATTTTTTGAAGCATCAAGATTTTTTAAATATCAATACTGGAA
AGATGAAAACCTTCAAAATTAACCTTAAATTTGATTAGAAAGAAAAGTAAATATTAATGCAGTAAATTTAGGATG
GTTACAGATACTCACCATCAACATAAATAAATGGAGTTCTAGGATAAATTATTTGTGGAATACTAATGGTCAAGT
CACATAAGAGTAAATCTTTTGGTGAGGAGACATTTGACAACCTGCTAAAGAATTAACATAATTTGTCTTTCTA
AATAGTTTTCTTTATAAGTAACAGAAACATTGTAAAAGGATAAATAAATGACTGTCATAATGACTTAGGATGTT
GTAAGAATGTCTGCCACATTTATTGGTTATTTCTGTTGAAATCTGAAGGAATCGATACATCTGAAAATTGAGAAA
GGGAAATAGGACTGTCCCGTTACAGATACTCTGTGATGCACACAACCTTCTAAACGGGAAGTGTTAGTATCATTT
AAAGCACATAGTAGGCCTTGAGTATTTGCAGATTAACATGCAGAAAAATCAAAGATGAAGCCCCAATTAAGTGT
TTGAACCAAGAATCACAGTCACTGAGCTGCACCCCGTTCTGTGAAGCATGTTAAATACTCATAAAGAGCAGAG
AGCAGGGCCCGTAGACGCTTCTGGTGTAGGACACAGGAATTCTAGGCAGAGGGAGAAAATTAGGGGCCCCAGTTG
GTGGCTGAGAGTAAAAAGAATATACCATTTGAGTAGTGCTGTTCTTTTTCTCAGTTTTTAAAGACATATAATTC

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FIGURE 1445B

CTAGTAGTTAGGACATCTAAATAGCTCGGTAAACTGGTCAG

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FIGURE 1446

TIEFSLMAT

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FIGURE 1447

GCAGTCCAGGCTGGACTGGGCGGCATTTGCCGAGGCTCCTCGGCCAGGCCCCGTCCGCCCAGCCGCGCTGAGAG
GGCAGCGGCCGCGTGGAGAGGAGGTGGCAGCGGCCGGGAGCGATGCCAAGCCAGCGACCCACCATGGAGACCCGC
TACAACCTGAAGAGTCCGGCTGTTAAACGTTTAAATGAAAGAAGCGGCAGAATTGAAAGATCCAACAGATCATTAC
CATGCGCACGCTTTAGAGGATAACCTTTTTGAATGGCACTTCACGGTTAGAGGGCCCCCAGACTCCGATTTTGAT
GGAGGAGTTTATCACGGGCGGATAGTACTGCCACCAGAGTATCCCATGAAACCACCAAGCATTATTCTCCTAACG
GCTAATGGTCGATTTGAAGTGGGCAAGAAAATCTGTTTGAGCATCTCAGGCCATCATCCTGAAACTTGGCAGCCT
TCGTGGAGTATAAGGACAGCATTATTAGCCATCATTGGGTTTATGCCAACAAAAGGAGAGGGAGCCATAGGTTCT
CTAGATTACACTCCTGAGGAAAGAAGAGCACTTGCCAAAAAATCACAAAGATTTCTGTTGTGAAGGATGTGGCTCT
GCCATGAAGGATGTCCTGTTGCCTTTTAAATCTGGAAGCGATTCAAGCCAAGCTGACCAAGAAGCCAAAGAACTG
GCTAGGCCAAATAAGCTTTAAGGCAGAAGTCAATTCATCTGGAAAGACTATCTCTGAGTCAGACTTAAACCACTCT
TTTTCACTAACTGATTTACAAGATGATATACCTACAACATTCCAGGGTGCTACGGCCAGTACATCGTACGGACTC
CAGAATTCCTCAGCAGCATCCTTTTCATCAACCTACCCAACCTGTAGCTAAGAATACCTCCATGAGCCCTCGACAG
CGCCGGGCCCCAGCAGCAGAGTCAGAGAAGGTTGTCTACTTCACCAGATGTAATCCAGGGCCACCAGCCAAGAGAC
AACCACACTGATCATGGTGGGTGAGCTGTACTGATTGTCATCCTGACTTTGGCATTGGCAGCTCTTATATTCCGA
CGAATATATCTGGCAAACGAATACATATTTGACTTTGAGTTATATAATGTTTGTGACTTATGAGCTGTGACTC
AACTGCTTCATTAAACATTCTGCATTGGGTATAATCTAAGAATTGTTTACAAAAGATTATTTTGTATTTACCCT
TCATTCCTTTTTTTGATCCTTGTAAGTTTAGTATAAATATATCTAGACATTCAGACTGTGTCTAGCAGTTACGTC
CTGCTTAAAGGGACTAGAAGTCAAAGTTCCTTGCTCTACTATTTGATCTGCTTTCAGGGAAATAACTTGTTTT
TCTCATGTTTCATCTTCTTTTTATGTAAATTTGTAATACTTTCTATATTGCCCTTTGAAATTTTGGATAAAAG
ATGATGTTTTAAGTTCCAATGAGTATTACTAGTTACTCAATACCACTTATTGAGTACTCTGTTTCTACGTATGTA
GAATGTATAGGGATAGAAGAGTTGAAAAGGGAAAGCAAACTCCTCAAGTAGCTTCCTTAAAATGTCATTCATAG
GAGATGTACTGGAATTGCTCATTCTGTGACTTTATTTGTGTCTAAACATTCTTCAGTGAAAATAATTTTATTTT
AGTCAAACATTTATGAGGAAATGAGATCACATCTTTGTCACTGGATGCTACTTGAAGAGGGAGTACTTTGTAACC
ACTTTGATATGCTGTTATCACCACCCCCTGCCCTCTGCTGCCATAATCACACAAATTTAAA

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FIGURE 1448

MP SQRPTMETRYNLKSPAVKRLMKEAAELKDPTDHYHAHALEDNLFEWHTVRGPPDSDFDGGVYHGRIVLPPEY
PMKPPSIILLTANGRFEVGKKICLSISGHPETWQPSWSIRTALLAIGFMPTKGEGAIGSLDYTPERRALAKK
SQDFCCEGCGSAMKDVLLPLKSGSDSSQADQEAKELARQISFKAENVSSGKTISESDLNHSFSLTDLQDDIPTTF
QGATASTSYGLQNSSAASFHQPTQPVAKNTSMSPRQRRQQSQRRRLSTSPDVIIQGHQPRDNHTDHGGS AVLIVI
LTLALAALIFRRIYLANEYIFDFEL

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FIGURE 1449

CTGGGGGCGGGGCAGGGGCAGGTGTAGCCTCTGTGCCTCGTTGTCCCCTGGCGCTACCCGGACATCTCTCAGGGT
GCCGGCACCATGAAAGATCTGGACTTCGGAGCACGTCTTTGACCACCCGTGGGAAACTGTTACAACAGCTGCAATG
CAGAAATACCCAAACCTATGAACCCAAGTGTGGTTGGAGTTGATGTGTTGGACAGACATATAGATCCCTCTGGA
AAGTTGCACAGCCACAGACTTCTCAGCACAGAGTGGGGACTGCCTTCCATTGTGAAGTCTCTTATTGGTGCAGCA
AGAACGAAAACATATGTGCAAGAACATTCTGTAGTTGATCCTGTAGAGAAAACAATGGAACCTAAATCTACTAAT
ATTTTCATTTACAAACATGGTTTCAGTAGATGAGAGACTTATATACAAACCACATCCTCAGGATCCAGAAAAACT
GTTTTGACACAAGAAGCCATAATTACCGTGAAAGGAGTTAGCCTCAGCAGTTACCTTGAAGGACTGATGGCAAGT
ACGATATCCTCAAATGCTAGTAAAGGCCGAGAAGCAATGGAATGGGTAATACATAAAATTAATGCTGAGATTGAA
GAACTGACAGCCTCAGCAAGAGGAACCATAAGGACTCCAATGGCAGCAGCAGCGTTTTGAGAGAAAGTGATCGTG
ACAGTTGGTAGACAACATCGGGTACTCCAGGTCTCTCCAAACTTGACTATATATTTTATTTTGTATTTTAAAAATAC
AACTATATTTTGGGTAGTTTTTTTTTTTTTTTTTTTTTGGATAAGTTGGTGTAAGGCIATGTGACTTGATCAAAACA
GATGCAGGGCCTCTAAATAAAAAGGGATCATCTGAAATTAATGTTGTTTGAAATTACTATCTGATTTTGAGGGTTC
CAGTATTTCTGTGAAAAATTCACAAGAACTCCTTGAAACTGGTATTGATATTCAGTCTCCTTAAGGTAGATTTT
TCAAGCTTTTTCATACATTGGAACCTCCACCTGACTTTGGACCAACCCCAAGACAGAGCAGAGCCACCTCCTATAGA
CGCCCATTTGCCCTGCTGCTGTACACTTCAGCAGCTTGACAAGGGAGCTCACTTAAAAGGAGAAATGTGTAGTT
TTAAATATATTTTGTGTAAATACCTTACTATGCTATAAACCACCATTAAAAACCAGTGTTTTGATTTGGTACT
TAAATATTTTGGAGTGAAATTTATCACTAAAGTAACATGACTCCAACAAAAGTATGGTTTCATTATAAAAGAGT
ACTGTATTGATTTGCCCAAGTTTTGTAACCTTAGTAAAGGTATTAACCTTCCTTGGAATTTGACTTTGTGATTTAGT
ATGCTGTATCGTGGGCTGGTTATGTTAACTGAAAAAATAAAGTCATTACCTGAGTTTGCAGTGCTCTAACTTA
AACAGAAGAACAGCTGTTACATCTTTTAGCATTTTACATTTGCCTAACTTAAAATTGCCATGTGTCAAATCA
TGGTTTTGTAATTGCTAAGGCATGATATGTCAGGTTATTTGAATATAATTACTTTTTGAAGTAATTGTGACCACA
AAACATCTTTTTTACATGAAGGAGCTGTGTATCATTTGAAATTACTCAAATGATGTCTTGCTCTGAGGCATAAAT
CCCAGGTACTTAGTGTTTTTAATAATATGGTGCCACTGCAGGATTTGGGGGCGGTGGGGAAGAACAAGCATAATG
GTAGGGGGAGGCTTGCCCTGAACTAACCCTGAGTGAATTGCACTGCAGGTTTACTTAACGGGAATTCCTTAT
TTGGGATGTCAAGAGGGCAGCTGCAAACTGAAAAACAATCCAGTAAATGTACTTTGTTTTATGTATTGTAGCAGG
CAATTAACCTACTAAATAATAGCTTTGACATTTGCAATTGTTGCATAGAGACTATTTTGTAGAAAGATGATTAGC
TCTTGCTTTTATTTTACAGTGCTTAGTGTGATAAACTTCTAGTCATGTTTCTATCCAAGAGACCAGTTAATATA
TGTACATAAAACCACAGAAATAGTATAACACACTATTTTAAATTATCGTTTTCTACTTAAATTTTGTTTAGCTT
AAGACTTCTTAGGACATTTGTAAGAGCAGGTTAAATTTAATAAGGTTTCTGATTTTTTTTTTGTAAACCGGAGATAG
TTTTTACAAGTGAAATAACATTTAGCTAAATAAAACATCGCTAAATAATTGATATTTGATGAAATCTGCTTTG
TATAATTTCTGTAAATTATCCTTGTTCTGAAAAAGGTGTAATGCCCTAATATTTTTAAATCCTTATCCTTTGATT
TTTTAAAAACTGACCTATTGATAAACTATAAATTTTCAATTTCCAGTGCAGTTAGTTACCTTTTTAAACATAAA
TGCACAACAAGCAAAATGAATTTAAGAGAATAAACTGGAATAAGTGTTTATAAATGAAACCCTTGGACTATTTAA
TAAAGTTGAAATGTGAATTAAGGAAAACCTTTGTTAATAAAAACTTTCTTTTAAAAAAA

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FIGURE 1450

MKIWTSEHVFDHPWETVTTAAMQKYPNPMNPSVVGVDVLDLRHIDPSGKLHSHRLLSTEWGLPSIVKSLIGAARTK
TYVQEHSVVDPVEKTMELKSTNISFTNMVSVDERLIYKPHPQDPEKTVLTQEAIITVKGVSLSYLEGLMASTIS
SNASKGREAMEWVIHKLNAEIEELTASARGTIRTPMAAAAFCREVIVTVGRQHRVLQVSPN

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FIGURE 1451

ATATGATCCGCTCGGCTTCCTGGGTCTGGCTGCTGCCGCCCGCCGGTGTCCGCCCGTGTGCGCCCGGGGCACCAA
GGAGCCGTTGGAGGGTCCGGGCGGAGGCCCGCTCGTGTGGAAGTCGTGACGCCCGCCGCTCGTCCGTCTCTCCGT
CCGTTCTCGCTCCCGGCCGCCATCATGCTGGCGCTCATCTCCCGCCTGCTGGACTGGTTCCGTTTCGCTCTTCTGG
AAGGAAGAGATGGAGCTGACGCTCGTGGGGCTGCAGTACTCGGGCAAGACCACCTTCGTCAATGTATCGCGTCA
GGTCAATTTCAGTGAAGATATGATACCCACAGTGGGCTTCAACATGAGGAAGGTAACATAAGGTAACGTCACAATA
AAGATCTGGGACATAGGAGGACAACCCCGATTTCGAAGCATGTGGGAGCGGTATTGCAGAGGAGTCAATGCTATT
GTTTACATGATAGATGCTGCAGATCGTGAAAAGATAGAAGCTTCCCGAAATGAGCTACATAATCTTCTAGATAAA
CCACAGTTACAAGGAATTCAGTGCTAGTGCTTGGAAACAAGAGAGATCTTCTTAATGCCTTGGATGAGAAACAG
CTAATTGAAAAAATGAATCTGTCTGCTATTTCAGGATAGAGAAATTTGCTGCTATTCAATTTCTTGCAAAGAAAA
GATAATATAGATATCACACTTCAGTGGCTTATTTCAGCATTCAAAATCTAGAAGAAGCTGAAGCATCTCTTGAAGT
CTTCCAGTCCCTTCTTGGCTATAATCCTAGAATTATTGTCCGTTCCCTCTGAAGTAATTCACAGAATACGGTCCCTC
CTAAACCCAGAAATTCCTTTTTTTCAGAGTCTATTTCTCATGTGCACTGCTGAAGATGAATATCCCTAATCCTTC
ATAAAGAATCAGCTAGAGTTGTCTGATATAAGTCAGCACACACAAAAAGGCTTCTTACACATACCAAAAAAATG
TCTTAAACCATGTGTAGAGCTTTAAAAACAGAAAAAAACCCCATATACTTATGACCATCTTAAATCAAGAAAAT
TGCATATTTCCATTCTGGTCTTTCTGGGCCAGATTTTTATATTGGTTTTTCAGTAAATGTCTATCTATAATATTTT
ATTATAGAGTCCAGTAGCTTAATACTGACACTGACTTGATACAGCACGAAGTTTCTAGTGCCACACACAGTATTT
AGAAAACCTTTAGGCGTGAATGACTCATGTGGGATATATGTAAACATAATGTTTATTTTATCTCACAAATGCATG
TGAAATGTATAATTACATCTTAGGAATCCAAATGGTCTGCAGAGAGTGAGCGGAGGCACCAGATCAATGTTGGT
TCTTTGCACTGGTGAGATTCTGCCTGATGAATATTAAAGATATCTGCTTTCTGAGAACTCTATCACCAGATGGC
AGTTGGGATATGGGAGGAACATAAGCATCCTGTTTTGTATCTGTCCAGATCATTATTTCTGTCTCTTGTTTTTTC
TTCTGGTTTCAGGATACTTTTTTAAGGGGTTGAGAATTGAAGATTTTCCAAAAGCGTTCATGAATTTAGAGCATT
CCACCCAATATAATAAAACCTGTTAAGAATGTGAGTCTTTGTTCAAACATCTGTTTGTCTATCTCCAGTCATTA
AATCAGTGCTGCTGCATGACACTCTTAACCTGACTTTTTATATCCAGTCATAAAGTTGACTTTTCAGCACAAAA
GATACTTATAAACAAATAAAAAATTTTTATTTTTCTCTCTTACTGATGTAAGCTTTGGCACTCTTTTGACTGGTG
CCATTAGACATCTTGATTATTGTGACAACCTCTAGACCTGCCTGCTTTATCTAATGTAATCATGCTCAATGTCTAC
AGGTTGTTTAATAATCAGTCACACAGAGAACTGAGGAAGTATGCTGTTTGTGTTGCTTCTATGATACAGAGATGT
CTAAAAACTTCAAATGGACATGTTTTGTAGTTTAGCGACTTCCGTATACATAAAGGGACATATTAATACTGGTTC
ATTTGTAAATTATTATTCATATAGACCACTGTAGTAGATAAACTCTATGGTACACCTGCTTATGTGTTGCCTCA
CACTGTGTGTGATTTTGTTCCTTTTGTAAAGCAGCACTTATGTAGACTGCATTTCCAAATGTGTTGAGCACTCGG
AGTGTAGTCAACAGTAAGTTCTTTTAATGAATATCAGTTTTAATTTATAGACTGCCATGGCCTTAAAAATATTCT
GTACAATATACTGCACTGTGTTGCACAGACACTACTTGCTTTTTCTCCATTCAATTTTTATGAGTAGAATCTGGG
CTTTTAAATTTCTCTTCTTATTCTTTGAAGCATGTTGCATACTACCCTGGTGGGATGGATGGTTCTGTAAATGAA
GGGATATTTAAACTTGCTACTGTTGTTCAACACCATTAAATGGTCAGTGTGAACCATTACAAAGAATGTGGCAACT
TGCTTGTGCCTAAAAGGAGGAATTGGAAGTGAATGTGTGACTCTGTGGGGACTGCATAGGTTTGTTAATTGACC
TATAGCTAAACCTTAATGTGTTTGTGTGTCTATACATTGCTTTCCGCATTTCAAGACATCCAGACGCTATTACCA
ACATTTTCCTGTGCATTAACCTCTGCATGTGAAAACTTTTAACAGTTACTGAACTATGTAAATATGTGAATTTTT
TTATTTAGGTGGATGCATTTTTTGTCTGTTTACTGCTCTTCTCAGCTTTATTCAATAAACTTGCAATTTAAGGGT
TGTATTGGCAATTTTAACTTAAATGTGCATCATGATGGAAGGTGCAGACTTTTTTGGAAGTTTCCGAGAGGAGG
GTCTATAGACCATTTGTGAGAAATCAGATCAGCCCTCAAAGAATGGGGTCTGTGGGCTAGTTAAATAGAAATAA
ACTTTTAAATATCCACAG

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FIGURE 1452

MLALISRLLDWFRSLFWKEEMELTLVGLQYSGKTTFVNVIASGQFSEDMIPTVGFNMRKVTGKNVTIKIWDIGGQ
PRFRSMWERYCRGVNAIVYMIDAADREKIEASRNELHNLLDKPQLQGIPVLVLGNKRDLFPNALDEKQLIEKMNLS
AIQDREICCYSISCKEKDNIDITLQWLIQHKSRRS

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FIGURE 1453A

GTCAATTGCCCTTTAGTCCCAGGACTAACCGGAAGCTTCTGCAACAGGAGGACATTGAAAATAAGATGGAACCCA
TCCACATAAGGATTTGCCTCAAAGGGCACTGCAAAAATTGAACAGAGGAATCCCAAGGAAGCTGCCTGAATTTGC
CTGTATACTCTCGTTCTGCGACTTATAAAGGACCAGACAAATCAAATTAGTGGTTTTGGTTTTCCGCCAGCTGTGG
ATGCCTTTGACATTATGACCGCAGAGGATTCCACCGCAGCCATGAGCAGTGACTCGGCCGCCGGGTCTCTCGGCCA
AGGTGCCCCGAGGGCGTGGCGGGCGCGCCCAACGAGGCAGCACTGCTGGCGCTGATGGAGCGCACGGGCTACAGCA
TGGTGCAAGAGAACGGGCAGCGCAAGTACGGCGGGCCACCGCCCGGCTGGGAGGGCCCCGACCCGACGCTGGCT
GCGAGGTCTTCGTGGGCAAGATCCCGCGCGACGTGTACGAGGACGAGCTGGTGCCCGTGTTCGAGGGCGTGGGCC
GCACCTACGAGCTGCGCCTCATGATGGACTTTGACGGCAAGAACC CGCGGTACGCCTTCGTATGTACTGCCACA
AGCACGAGGCCAAGCGCGCAGTGCGTGAGCTCAACAACCTACGAGATCCGCCCGGGCCGCGCTGCTCGGCGTGTGCT
GCAGCGTGGACAACCTGCCGCTCTTCATCGGCGGGATCCCCAAGATGAAGAAGCGCGAGGAAATCCTGGAGGAGA
TTGCCAAGGTACCCGAGGGCGTGTGGACGTGATCGTCTACGCCAGCGCGGCCGACAAGATGAAGAACC CGCGCT
TCGCCTTCGTGGAGTACGAGAGCCACCGCGCGGCTGCCATGGCTCGCCGCAAGCTCATGCCTGGCCGCATCCAGC
TGTGGGGCCACCAGATCGCCGTGGACTGGGCCGAGCCTGAGATCGACGTGGACGAGGACGTGATGGAGACCGTGA
AGATCCTCTACGTGCGCAACCTCATGATCGAGACCACCGAGGACACCATCAAGAAGAGCTTCGGCCAGTTCAACC
CCGGCTGCGTGGAGCGCGTCAAGAAGATCCGCGACTACGCCTTCGTGCACTTCACCAGCCGCGAGGATGCCGTGC
ATGCCATGAACAACCTCAACGGCACTGAGCTGGAGGGCTCGTGCTGGAGGTCACGCTGGCCAAGCCCGTGGACA
AGGAGCAGTACTCGCGCTACCAGAAGGCAGCCAGGGCGCGCGCGGCTGAGGCAGCGCAGCAGCCAGCTACG
TGTACTCCTGCGACCCCTACACACTGGCCTACTACGGCTACCCCTACAACGCGCTCATTGGGGCCCAACAGGGACT
ACTTTGTGAAAGTAGCCATCCCTGCCATTGGGGCTCAGTATTCATGTTTCCAGCAGCTCCAGCCCCCTAAATGA
TTGAAGATGGCAAAATCCACACAGTGGAGCACATGATCAGCCCCATTGCTGTGCAGCCAGACCCAGCCAGTGCTG
CTGCCGCCGAGCCGCGGCCGAGCCGCCGAGCCGCTGTCATTCCCACTGTGTGACGCCACCACCTTTCCAGG
GCCGCCCAATAACTCCAGTATACACGGTGGCTCCAAACGTTTCAGAGAATTCCTACTGCCGGGATCTACGGGGCCA
GTTACGTGCCATTTGCTGCTCCAGCTACAGCCACGATCGCCACACTACAGAAGAACGCGGCAGCCGCGGCCGCCG
TGTATGGAGGATACGAGGCTACATACCTCAGGCCCTCCCTGCTGCTGCCATTAGGTCCCCATCCCCGACGTCT
ACCAGACATACTGAGGCTGGTGACCAGCACGAAGACAGACCACACAAACACCACTGAAGGAACGCTTGACTATTT
ATGAAGAAGGAACATGTTGGATTACACATGCAACCTGAAAGTGAAGAATGTTAGCAGATTTATTTCTGAATTAT
TTTATATACATGAAGTTTTTCACTAGTTTTTTAAGACTATTTTCAACTTAGCATGCCTACGTTACATATTTCCAA
AAGACTTGCAATGGTTTCGTGCCTTCATTCCATCTTTTAAAAATTTGTATGCTGTACTACATTTGTATAGAGGTTT
TTGTTGTTGTTTTTTTTAAGGATATATTTTCAGTATGAAGGTTATTTTCTTAACCTTCTGCACCTCCAGAGATTTCTA
TTTTGTAGTACCTTCAATAATATATCAACTATATATTAATAAAGCACACTTGAGGAGCTAGGGAACATTTTGAA
AAATATATACAATATTTAAAGATACAAACAGTAGTGCTTAAAAATACTACATAAAGCATTATTTTAAAGGTTATA
CTGGAAAGTGCAATTTTAAATGAGTAAACCTCTGTATTTCTGCTGGCATTAAAGGGTTGATGGTGTTACCATGT
ATCATCATGGCGGTACTATTTTTTAAAGAAATTAACACTGGATCTCTCCTTAAGCCAACATTGAAAAGACTTG
CCGCACTTCTGAGTCCAAACACTGGAAAGCTCTCCTTGCCACCGTTAGCCGGGGCTCATTCTCCATGTGCCTTAG
CCTTAAACATGCCCCACTCCACATCTCTCACCCTGTCCCCCTCCTCCCAGATTCCCAATCCCACCGCAATGTT
TGGCAAGCCTAGGACTGATAAGTAGCTCTGATAGAGGAGCTGGTGGCTTTTATACTTCTTCTGGGTTTTTGTG
GGGTTTGTGTTTCGTTGTTTTTTTTGTTTTTTTTTGTGTTGGTTGGGGAAGTATTGTCTTCTACGTGTGCTATTTT
CAGTAGCAGAGTAAGCACAAGGTTTTTAATCGAGTTGCATAAGACACCTTTGCATAGCTATTTAATTGCCCAATGT
AAAACTTTAAATGCCATTTCTAATGCTTTTATTCAATTTTGAAGTATGAGTTTGTAGGGACAAAGAATGTATGTTA
TCGTAGACAAGACCCCGAGAGACTCTTTTCAGCAGAAAGTTATGCTTCTAGTTGCCTTACCATGTTTCTTGCAAA
ACTGTCCATGGTCTCAAGGGTGTGGAAACATTATGTTTATTAAATGGGCCTCTCTCCTTTGCTGTGCACTTG
ATGGGTGAACCTGGATTGGGGTGTGCACATCCAGGAGGAGGAGAGACCTGTAGAAGTTTAAAGATAGTTTGTA
AATATCTTCTAATGCTTGTTTTTTAGTCCTTTTATGTTGGAGAAGTTCATGGTATGTAGTTTAAATGCAAAATGAAA
CCATTTTATTTCAATGTTATTAAAAAGGTTTGTGTTTATTAGGAAGTTAATGTATTGTTGCAGTGTTTTGTGCCTG
TTTAAAGGCTTTTGTGTTAGCAGAGTGAATGTAAATACAGTAAATGTAAAGATTGTCATCTACTTTTTAAAAAA
AAATATCAACTTGGAATTGTTTTTTAAAGGCTCAATCAAGGAAGTGAGGTGTGCAATAAGGTAGCAAGTAAACG
CAGTTGCGTTTTTATGTCATGTTAGAGATCCATACAATTTTCCACTCACGGGATTTTTGTTGATGGCTGAATTCT
TGTGGATTCAAGAGGATCATGCCCTTAGCAAGTACTTTTGTGTTTTGTTTTAAATTAAGAGATTCCCAATGCCT

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FIGURE 1453B

TTTCCCCCTCATCTTGAAATGAGATGAGTTTTTATGTGTAAGCAATATTTATTTAACTATTCTATAAAATTATT
GAGTGCCTACTGAGGCCTTTAAGCACCGCTAACATTCTTTCCATCATTCTTTTGAATGACATAAAATAATTGTG
CAATGTTCTGATGATGTACCCACAGCTGCATTCAAACCTCAAATCTGTGGGAATGAGTGAAGGATTGTCACAGAGTTT
ATTCGGATCAGATCCTCATCCCCTGAAGTGTGTGAAAAAGTACTCTCCTTCTAGTGAAGGATTGTCACAGAGTTT
CACTGGATGAAACTATGACCCAGTATTCTTACTGTATTTTACATGTGCCTGTAAATTATTTTGCCGAAATAAGAA
GAAGAAGAGGAAGAAAGAACAGTAGAAAAAAAAAATAAAAAAAAAA

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FIGURE 1454

MTAEDSTAAMSSDSAAGSSAKVPEGVAGAPNEAALLALMERTGYSMVQENGQRKYGGPPPGWEGPHPQRGCEVFV
GKIPRDVYEDELVPVFEAVGRTYELRLMMDFDGKNRGYAFVMYCHKHEAKRAVRELNNYEIRPGRLLGVCCSVDN
CRLFIGGIPKMKKREEIILEEIAKVTEGVLDVIVYASAADKMKNRGFAFVEYESHRAAAMARRKLMPGRIQLWGHQ
IAVDWAEPEIDVDEDVMETVKILYVRNLMIETTEDTIKKSFGQFNPGCVERVKKIRDYAFVHFTSREDAVHAMNN
LNGTELEGSCLEVTLAKPVDKEQYSRYQKAARGGGAAEAAQQPSYVYSCDPYTLAYYGYPYNALIGPNRDYFVKV
AIPAIGAQYSMFPAAPAPKMIEDGKIHTVEHMISP IAVQPD PASAAAAAAAAAAAAAAAAAVIPTVSTPPPFQGRPIT
PVYTVAPNVQRIPTAGIYGASYVPFAAPATATIATLQKNAAAAAVYGGYAGYIPQAFPAAIQVPIDVYQTY

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FIGURE 1455

AGACGGAAGTGC GGGCGGAGGATCCCCAGCCGGGTCCCAAGCCTGTGCCTGAGCCTGAGCCTGAGCCTGAGCCCCG
AGCCGGGAGCCGGTCGCGGGGGCTCCGGGGCTGTGGGACCGCTGGGCCCCCAGCGATCGCGACCCTGTGGGGAGGC
CTTCTTCGGCTTGGCTCCTTGCTCAGCCTGTGCTGCCTGGCGCTTCCGTGCTGCTGCTGGCGCAGCTGTGAGAC
GCCGCCAAGAATTTTCGAGGATGTCAGATGTAAATGTATCTGCCCTCCCTATAAAGAAAATTCTGGGCATATTTAT
AATAAGAACATATCTCAGAAAGATTGTGATTGCCTTCATGTTGTGGAGCCCATGCCTGTGCGGGGGCCTGATGTA
GAAGCATACTGTCTACGCTGTGAATGCAAATATGAAGAAAGAAGCTCTGTCACAATCAAGGTTACCATTATAATT
TATCTCTCCATTTTGGGCCTTCTACTTCTGTACATGGTATATCTTACTCTGGTTGAGCCCATACTGAAGAGGCGC
CTCTTTGGACATGCACAGTTGATACAGAGTGATGATGATATTGGGGATCACCAGCCTTTTGCAAATGCACACGAT
GTGCTAGCCCGCTCCCGCAGTCGAGCCAACGTGCTGAACAAGGTAGAATATGCACAGCAGCGCTGGAAGCTTCAA
GTCCAAGAGCAGCGAAAGTCTGTCTTTGACCGGCATGTTGTCTCAGCTAAATTGGGAATTGAATTCAAGGTGACT
AGAAAGAAACAGGCAGACAACTGGAAAGAACTGACTGGGTTTTGCTGGGTTTCATTTTAATACCTTGTTGATTTT
ACCAACTGTTGCTGGAAGATTCAAACTGGAAGCAAAAACCTTGCTTGATTTTTTTTTCTTGTTAACGTAATAATA
GAGACATTTTTTAAAGCACACAGCTCAAAAGTCAGCCAATAAGTCTTTTCCTATTTGTGACTTTTACTAATAAAAA
TAAATCTGCCTGTAAATTATCTTGAAGTCCTTTACCTGGAACAAGCACTCTCTTTTTTACCACATAGTTTTAACT
TGACTTTCAAGATAATTTTTCAGGGTTTTTGTGTTGTTGTTGTTTTTGTGTTGTTGTTTGGTGGGAGAGGGGAGGG
ATGCCTGGGAAGTGGTTAACAACTTTTTTCAAGTCACTTTACTAAACAACTTTTGTAAATAGACCTTACCTTCT
ATTTTCGAGTTTCATTTATATTTTGCAGTGTAGCCAGCCTCATCAAAGAGCTGACTTACTCATTTGACTTTTGCA
CTGACTGTATTATCTGGGTATCTGCTGTGTCTGCACTTCATGGTAAACGGGATCTAAAATGCCTGGTGGCTTTTC
ACAAAAAGCAGATTTTCTTCATGTACTGTGATGTCTGATGCAATGCATCCTAGAACAACTGGCCATTTGCTAGT
TTACTCTAAAGACTAAACATAGTCTTGGTGTGTGTGGTCTTACTCATCTTCTAGTACCTTTAAGGACAAATCCTA
AGGACTTGGACACTTGCAATAAAGAAATTTTATTTTAAACCAAGCCTCCCTGGATTGATAATATATACACATTT
GTCAGCATTTCCGGTCGTGGTGAGAGGCAGCTGTTTGAGCTCCAATGTGTGCAGCTTTGAACTAGGGCTGGGGTT
GTGGGTGCCTCTTCTGAAAGGTCTAACCATTATTGGATAACTGGCTTTTTTCTTCCTCTGCTCCTTTTGAATGT
ACAATAAAAATAATTTTTTGAACATCC

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FIGURE 1456

MATLWGGLRLGSLLSLSCLALSVLLLAQLSDAAKNFEDVRCKCICPPYKENS
GHIYNKNISQKDCDCLHVVEPM
PVRGPDVEAYCLRCECKYEERSSVTIKVTIIYLSILGLLLLYMVYLT
LVEPILKRRLFGHAQLIQSDDDIGDHQ
PFANAHDVLA RSRANVLNKVEYAQQRWKLQVQEQRKSVFDRHVLS

1637/2777
FIGURE 1457

GAGCAACCTCAGCTTCTAGTATCCAGACTCCAGCGCCGCCCGGGCGCGGACCCCAACCCGACCCAGAGCTTCT
CCAGCGGCGGCGCAGCGAGCAGGGCTCCCCGCCTTAACCTTCTCCGCGGGGCCAGCCACCTTCGGGAGTCCGGG
TTGCCACCTGCAAACCTCTCCGCCTTCTGCACCTGCCACCCCTGAGCCAGCGCGGGCGCCGAGCGAGTCAATGGC
CAACGCGGGGCTGCAGCTGTGGGCTTCATTCTCGCCTTCTTGGGATGGATCGGCGCCATCGTCAGCACTGCCCT
GCCCCAGTGGAGGATTTACTCCTATGCCGGCGACAACATCGTGACCGCCAGGCCATGTACGAGGGGCTGTGGAT
GTCCTGCGTGTGCGCAGAGCACC GGCGAGATCCAGTGCAAAGTCTTTGACTCCTTGCTGAATCTGAGCAGCACATT
GCAAGCAACCCGTGCCTTGATGGTGGTTGGCATCCTCCTGGGAGTGATAGCAATCTTTGTGGCCACCGTTGGCAT
GAAGTGTAAGAGTGCTTGAAGACGATGAGGTGCAGAAGATGAGGATGGCTGTCATTGGGGGTGCGATATTTCT
TCTTGCAAGTCTGGCTATTTTAGTTGCCACAGCATGGTATGGCAATAGAATCGTTCAAGAATTCTATGACCCTAT
GACCCAGTCAATGCCAGGTACGAATTTGGTCAGGCTCTCTTCACTGGCTGGGCTGCTGCTTCTCTCTGCCTTCT
GGGAGGTGCCCTACTTTGCTGTTCTGTCCCCGAAAAACAACCTCTTACCCAACACCAAGGCCCTATCCAAAACC
TGCACCTTCCAGCGGGAAAGACTACGTGTGACACAGAGGCAAAAGGAGAAAAATCATGTTGAAACAAACCGAAAAAT
GGACATTGAGATACTATCATTAAACATTAGGACCTTAGAATTTTGGGTATTGTAATCTGAAGTATGGTATTACAAA
ACAAACAAACAAACAAAAAACCATGTGTTAAAATACTCAGTGCTAAACATGGCTTAATCTTATTTTATCTTCTT
TCCTCAATATAGGAGGGAAGATTTTACCATTGTATTACTGCTTCCCATTGAGTAATCATACTCAAATGGGGGAA
GGGGTGCTCCTTAAATATATATAGATATGTATATATACATGTTTTTCTATTAAAAATAGACAGTAAATACTATT
CTCATTATGTTGATACTAGCATACTTAAAATATCTCTAAAATAGGTAAATGTATTTAATTCATATTGATGAAGA
TGTTTATTGGTATATTTTCTTTTTCTGCTTATATACATATGTAACAGTCAAATATCATTTACTCTTCTTCATTA
GCTTTGGGTGCCTTTGCCACAAGACCTAGCCTAATTTACCAAGGATGAATTCTTTCAATTCTTCATGCGTGCCCT
TTTCATATACTTATTTTATTTTTTACCATAATCTTATAGCACTTGCATCGTTATTAAGCCCTTATTTGTTTTGTG
TTTCATTGGTCTCTATCTCCTGAATCTAACACATTTTCATAGCCTACATTTTAGTTTCTAAAGCCAAGAAGAATTT
ATTACAAATCAGAACTTTGGAGGCAAATCTTTCTGCATGACCAAAGTGATAAATTCCTGTTGACCTTCCCACACA
ATCCCTGTACTCTGACCCATAGCACTCTTGTTTGCTTTGAAAAATTTGTCCAATTGAGTAGCTGCATGCTGTTT
CCCCAGGTGTTGTAACACAACCTTTATTGATTGAATTTTAAAGCTACTTATTCATAGTTTTATATCCCCCTAAACT
ACCTTTTTGTTCCTTAAATTTGATTGTTTTTCCCAAGTGTAATTAATCATGCGTTTTATATCTTCTTAATA
AGGTGTTGGTCTGTTTGTCTGAACAAAGTGCTAGACTTTCTGGAGTGATAATCTGGTGACAAATATTCTCTCTGTA
GCTGTAAGCAAGTCACCTAATCTTTCTACCTCTTTTTTCTATCTGCCAAATTGAGATAATGATACCTTAACCAGTT
AGAAGAGGTAGTGTAATATTAATTAGTTTATATTACTCTCATTCTTTGAACATGAACATATGCCTATGTAGTGTC
TTTATTTGCTCAGCTGGCTGAGACACTGAAGAAGTCACTGAACAAAACCTACACACGTACCTTCATGTGTTTCACTGCTT
TGCTTCTCTCTCTACCAGTCTATTTCCACTGAACAAAACCTACGCACATACCTTCATGTGGTTCAGTGCCCTTCTCTC
CTCTCTCTACCAGTCTATTTCCACTGAACAAAACCTACGCACATACCTTCATGTGGTTCAGTGCCCTTCTCTCTC
TACCAGTCTATTTCCATTCTTTTCACTGTGCTGCTGACATGTTTGTGCTCTGTTCCATTTTAAACAACCTGCTCTTACT
TTTCCAGTCTGTACAGAATGCTATTTTCACTTGAGCAAGATGATGTATGGAAAGGGTGTGGCACTGGTGTCTGGA
GACCTGGATTTGAGTCTTGGTGCTATCAATCACCGTCTGTGTTGAGCAAGGCATTTGGCTGCTGTAAGCTTATT
GCTTCATCTGTAAGCGGTGGTTTTGTAATTTCTGATCTTCCCACCTCACAGTGATGTTGTGGGGATCCAGTGAGAT
AGAATACATGTAAGTGTTGGTTTTGTAATTTGAAAAGTGCTATACTAAGGGAAAGAATTGAGGAATTAACCTGCATA
CGTTTTGGTGTTGCTTTTCAAATGTTTGAAAATAAAAAAATGTTAAGAAATGGGTTTCTTGCCCTTAACCAGTCTC
TCAAGTGATGAGACAGTGAAGTAAAATTGAGTGCACTAAACGAATAAGATTCTGAGGAAGTCTTATCTTCTGCAG
TGAGTATGGCCCAATGCTTTCTGTGGCTAAACAGATGTAATGGGAAGAAATAAAAGCCTACGTGTTGGTAAATCC
AACAGCAAGGGAGATTTTTGAATCATAATAACTCATAAGGTGCTATCTGTTCACTGATGCCCTCAGAGCTCTTGC
TGTTAGCTGGCAGCTGACGCTGCTAGGATAGTTAGTTTGGAAATGGTACTTCATAATAAACTACACAAGGAAAGT
CAGCCACCGTGTCTTATGAGGAATTGGACCTAATAAAATTTTAGTGTGCTTCCAAACCTGAGAATATATGCTTTT
GGAAGTTAAAATTTAAATGGCTTTTGCCACATACATAGATCTTCATGATGTGTGAGTGTAATTCATGTGGATAT
CAGTTACCAAACATTACAAAAAAATTTTATGGCCCAAAATGACCAACGAAATTTGTACAATAGAATTTATCCAAT
TTTGATCTTTTTATATTCTTCTACCACACCTGGAAACAGACCAATAGACATTTTGGGGTTTTATAATGGGAATTT
GTATAAAGCATTACTCTTTTTCAATAAATGTTTTTTTAAATTTAAAAAAGGAAAAAAAAAAAAAAAAAAAA

1638/2777
FIGURE 1458

MANAGLQLLGFI~~L~~AF~~L~~GWIGAI~~V~~STALPQWRIYSYAGDNIVTAQAMYEGLWMSCVSQSTGQIQCKVFD~~S~~LLNLSS
TLQATRALMVVGILLGVIAIFVATVGMKCMKCLEDDEVQKMRMAVIGGAIFLLAGLAILVATAWYGNRIVQEFYD
PMTFVNARYEFGQALFTGWAAASLCLLGALLCCSCPRKTTSYTPRPYPKPAPSSGKD~~Y~~V

1639/2777
FIGURE 1459

AATAACCTGGAGCCGGCGGCGTAGGTTGGCTCTTTAGGGCTTCACCCCGAAGCTCCACCTTCGCTCCCGTCTTTC
TGGAACACCGCTTTGATCTCGGCGGTGCGGGACAGGTACCTCCCGGCTGCTGCGGGTGCCCTGGATCCAGTCGG
CTGCACCAGGCGAGCGAGACCCCTTCCCTGGTGGAGGCTCAGAGTTCGGGCAGGGTGTCATCCGGCCTGTGTGTGGC
GCGAGGCAGGGAAGCCGGTACCCGGGTCTGGCCCCAGCGCTGACGTTTTCTCTCCCTTTCTTCTCTCTTCGCG
GTTGCGGCGTCGCAGACGCTAGTGTGAGCCCCCATGGCAGATACGACCCCGAGCGGCCCCCAAGGGGCGGGCGCT
GTGCAATTCATGATGACCAATAAACTGGACACGGCAATGTGGCTTTCTCGCTTGTTTACAGTTTACTGCTCTGCT
CTGTTTGTTCTGCCTCTTCTTGGGTTGCATGAAGCAGCAAGCTTTTACCAACGTGCTTTGCTGGCAATGCTCTT
ACCAGTGCTCTGAGGCTGCATCAAAGATTACCACACTTCCAGTTAAGCAGAGCATTCTGGCCCAGGCTTTGTTA
GAGGACAGCTGCCACTACCTGTTGTATTCACTCATCTTTGTAAATTCCTATCCAGTTACAATGAGTATCTTCCCA
GTCTTGTTATTCTCTTTGCTTTCATGCTGCCACATATACGAAAAAGGTCTTGACGCAAGGGGCTCAAATAGTTTA
CCTCTGCTGAGATCTGTCTTGGACAAATTAAGTGCTAATCAACAAAATATTCTGAAATTCATTGCTTGCAATGAA
ATATTCCTGATGCCTGCGACAGTTTTTATGCTTTTTAGTGGTCAAGGAAGTTTGCTCCAACCTTTTATATACTAT
AGATTTCTTACCCTTCGATATTTCGTCTCGAAGAAACCCATATTGTGCGACCTTATTTAATGAAGTGAAGATTGTT
GTTGAACACATAATAATGAAACCTGCTTGCCCACTGTTTGTGAGAAGACTTTGTCTCCAGAGCATTGCCTTTATA
AGCAGATTGGCACCAACAGTTCATAGTTTAAACATCTAGTTAAGCTACAAATATAGTATAAGCATTATTAGCAGC
TGGTACTTCTGCTAGGGGTTGTAAATTCAGGTGTTACACTGACCTCAATCCAATTTACATAATTTACATAAATG
CATCTCGGTGGAATAATAATCATTTTTCTTGGCATGTTAAATCAAGCTTAAAAAGTTTTGAGAAAATTTTACTGTG
CTGTGTTGCTAATGGTTAAAGAAGTCTGTATCTAGTGATAAATATACCAGTTTTTTTTAAAAAGATGCTGTTGTGC
CTATATCATGAAGTACATTAATTTCTCATGTAAAAAAATAGCTCTAAAATTTGTTTCAACCTAATTGGTAACCT
GAGTTTATATCTGGCATGAATTCATTATGGTGATACACATATGTGAATTCAGTACATTTTGAGACAGTATTCTAC
CATTCAGTAATTTTGTTAATGATTTTAAACACTTCTCAGTGTATTTAATTTCAAATTGTTTTTTAATTGGTTTT
ATGCTGCTTTGTTAGGACAGATGTGTTTTGAATGTACCATTATAAGAAGAATTCTATGTATCTTAACTATGATC
TTCTAAAATTTTATTTCCGTAAGTACTTCTGTGGCCTTGAGTATTTTTTAAAAGGCTCAACTGTAAGCCTCTTAG
CCAGTTGGATAAATATTTGGGGTCACCTAGCCATTGAAAGCAGAAAGCAGTAGTGACACAGCTTTCCCTTCAAAG
AGCCATTGAGAAACATTTCTCAAACAGGAAATCCTTCTTTTACTAATGTGGACATATAGATTATTCGTATTATAG
TTTGTAGAACTACCTAGTTCAGAATCTTGACTGCCAGTTTTCTTGGTTTCTTAGGCTTGAATTTTCATAGACAAT
TGCAACAGTTTAGATGCCTTTTGAAAGGAATGTAATGAAGATTGAGCATCTGACTATATGTGTGTCTATCCTGAA
ATAATAATGGAGAGTATACTGTAGATTACATGTTTACCCATCAAATCTGACTTAAAAGGTTAAATGGAAGGTTTT
ATAGGTAAGGTAATTGATTGGGAATGGGGTAGGGGGAGGAGTTGTGGGGGAATAATGTGCATTTTCACTCTCAACG
CATAGATAAATTTAGGGGAATTGGATGCATTATTCAACTTTGATTTGGGTTGTAAAATGTGTTAAATCCTGTTCA
TTGAACTCCCATCAACTCTTATGAAATTCATGCTGATCTTCAATTACCGTTGCATGATTGGAAATGTTTAAACAT
TGTACAGTTTTAGTATAGAGAAATGTAATGGTTTTTGTGACCAGTTTCTGTCTGCATGTAATTTGGATTCTCAA
ATACATTCAATTAGTAATTTATCAGTAACATTAGTTTTATTTTTGTTTCATCTCCTTATCTATAAAAAGGGGATATT
CTTAGGATAAATACATGAAAAATTATACTTGATAGCTTAACTATAATCAGCTATTTTTGTATTTTTGTAATATTT
GTCCACTAAGCTGGAGAAGCAGCCTCATAAGTTGATTTTGTGTATGTGGCTAGTCTTATTGTCACTATGTAAGT
AATCCAATGGTTTTAGAACTAACTTTCTAGAGCAATAAAATGACTATAATGTTAAGT

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FIGURE 1460

MADTTPSGPQGAGAVQFMMTNKLDTAMWLSRLFTVYCSALEVLP LLGLHEAASFYQRALLANALTSALRLHQLP
HFQLSRAFLAQALLED SCHYLLYSLIFVNSYPVTMSIFPVLLFSL LHAATYTKKVLDARGSNSLPLLRSVLDKLS
ANQQNILKFIACNEIFLMPATVFMLFSGQGSLLQPF IYYRFLTRYSSRRNPYCRTL FNELRIVEHIIMKPACP
LFVRRCLQSIAFISRLAPTVP

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FIGURE 1461

GCACGAGCCCCGGGCTGCCGGCGCGGGCGCCGCGGCACGTCCACAGGCTGGGTGCGGAGGTGGCGATCGCTGAGA
GGCAGGAGGGCCGAGGCGGGCCCTGGGAGGCGGCCCGGAGGTGGGGCGCCGCTGGGGCCGGCCCCGACGGGCTTCA
TCTGAGGGCGCACGGCCCCGCGACCGAGCGTGCAGGACTGGCCTCCCAAGCGTGGGGCGACAAGCTGCCGGAGCTGC
AATGGGCGCGGGCTGGGGATTCTTGTTTGGCCTCCTGGGCGCCGTGTGGCTGCTCAGCTCGGGCCACGGAGAGGA
GCAGCCCCCGGAGACAGCGGCACAGAGGTGCTTCTGCCAGGTTAGTGGTTACTTGATGATTGTACCTGTGATGT
TGAAACCATTGATAGATTTAATAACTACAGGCTTTTCCCAAGACTACAAAACTTCTTGAAAGTGACTACTTTAG
GTATTACAAGGTAAACCTGAAGAGGCCGTGTCTTTCTGGAATGACATCAGCCAGTGTGGAAGAAGGGACTGTGC
TGTCAAACCATGTCAATCTGATGAAGTTCCTGATGGAATTAAATCTGCGAGCTACAAGTATTCTGAAGAAGCCAA
TAATCTCATTGAAGATGTGAACAAGCTGAACGACTTGGAGCAGTGGATGAATCTCTGAGTGAGGAAACACAGAA
GGCTGTTCTTCAGTGGACCAAGCATGATGATTCTTCAGATAACTTCTGTGAAGCTGATGACATTTCAGTCCCCTGA
AGCTGAATATGTAGATTTGCTTCTTAATCCTGAGCGCTACACTGGTTACAAGGGACCAGATGCTTGGAATAATG
GAATGTCATCTACGAAGAAAACCTGTTTTAAGCCACAGACAATTAAGAGACCTTTAAATCCTTTGGCTTCTGGTCA
AGGGACAAGTGAAGAGAACACTTTTTACAGTTGGCTAGAAGGTCTCTGTGTAGAAAAAGAGCATTCTACAGACT
TATATCTGGCCTACATGCAAGCATTAAATGTGCATTTGAGTGCAAGATATCTTTTACAAGAGACCTGGTTAGAAAA
GAAATGGGGACACAACATTACAGAATTTCAACAGCGATTTGATGGAATTTTGACTGAAGGAGAAGGTCCAAGAAG
GCTTAAGAAGTTGTATTTTCTCTACTTAATAGAACTAAGGGCTTTATCCAAAGTGTACCATTCTTCGAGCGCCC
AGATTTTCAACTCTTTACTGGAAATAAAATTTCAGGATGAGGAAAACAAAATGTTACTTCTGGAAATACTTCATGA
AATCAAGTCATTTCTTTGCAATTTTGATGAGAATTCATTTTTTCTGGGGATAAAAAAGAAGCACACAACTAAA
GGAGGACTTTCGACTGCATTTTAGAAATATTTCAAGAATTATGGATTGTGTTGGTTGTTTTAAATGTCGTCTGTG
GGGAAAGCTTCAGACTCAGGGTTTGGGCACTGCTCTGAAGATCTTATTTTCTGAGAAATTGATAGCAAATATGCC
AGAAAGTGGACCTAGTTATGAATTCATCTAACCAGACAAGAAATAGTATCATTATTCAACGCATTTGGAAGAAT
TTCTACAAGTGTGAAAGAATTAGAAAACCTTCAGGAACCTGTTACAGAATATTCAT**TAA**AGAAAACAAGCTGATAT
GTGCCTGTTTCTGGACAATGGAGGCGAAAGAGTGAATTTTCATTCAAAGGCATAATAGCAATGACAGTCTTAAGC
CAAACATTTTATATAAAGTTGCTTTTGTAAAGGAGAATTATATTGTTTTAAGTAAACACATTTTTTAAAAATTGTG
TTAAGTCTATGTATAATACTACTGTGAGTAAAGTAATACTTTAATAATGTGGTACAAATTTTAAAGTTTAATAT
TGAATAAAAGGAGGATTATCAAATTCATATATGATAAAAGTGAATGTTCTAAGTCTCTCAAAGTAGCGTTTTATG
TAATAATATGTAATATAAATAAACTATGGTAAATGTGACAAGCATTTAATAGGAAAATGCTAAGGAGGCCTCAT
AAATGACCATAATTACCAACGTAGAATTTTTTCAGTACATTTAGGGTTGCTGGATTTAGCAAATAAAAAATAAGA
TTGCCCAGTTAGATTTGAATTTTCAGATAAACAATTAGTTTTTTTAAATATTTTACATGGAATATTTGGAAAATACTT
ATACTAAAAAATTATTTGTTTGAATTCACATTTAACTGGGAGTCTTGTATTTTATCTGGCAATCCTAAAATACA
TTGGTATGAAACAAATCACTTTTAGAAGTATATTGCTATTTTGATTGGGTTGTTTTTGTGTGTAGAAACGTACAA
TAACAACCTCAAAGGCACAGGAGATTTCTAAACATTGTGAAAAGTTGAATAGATTATATATTTATTCTCATAATAC
TTTCACTAATACTAAATAAAATTTGGGGAACACTTTTTATTTTTATATAATTTCCAATTTACAGAAAAGTTTCAA
AAATAGTACAAAGAGCTCTCTTACCCAGATTCACTAATTGTTTCATACGTGCTTTATCTTTTCATGCTTTCTCTGTA
CACACACACACACACAAATTTTTCTCAATCATTTGAAAGTCAGTTATAGGCATCATGCCCTTAAACCCTAA
ATACTTCAGTGTGTAATACTGAATAATTACTAAAAATGATTTTCTCAGAAAAAAAACCTCCACAATTCTGGAAC
TATAATACTGTAAGCCTTAGAATAAATAATACTTTCAAGTTCCAATCTAAAGTCTTTTTTGAGTTTTGTTGCCCG
TTTTATGCTTGATGTGTATAGTAATAGGGTAGGCTATTTATTTTATTAATAATTTTTTTAGAGACAAGTTTTTGC
TGTGTTGCCCAAGCTGGAACCTGAACGACTGGGCTGAAGTGATCTTCCCACCTCAGCCTCCAAGTAGCTGGGAA
TACAGGTGCTGCCACCATAACCCAGTTTCATTTTTGTTTTTATACCCGAAGTTCATTTCTTTGCTCTCCCTAAA
ACTGAACGTGAATTTTGGGAGGTTTTTCATTAGTGGAAGCTCTTCATTTATAAAGCTATTTGAAGGGGTTTAGGAA
TTTATATCACATGGTAATTGTAGAGAAAAAGAAGCTATATACCTCAAAATCGTGCCCTCTTTACATATGTCTTAT
CAGGTATAACATGTTGAAATGTCACATTAGTAGTAAAGTGGGGTTTATTTATATAGTGGTTAAGAAATGTCAGTT
TACACTGCTGTACTTCTTCTGTGTCCCTAAGGCCTGGTACAGTGCCAAGCACATACTTGGTATCCAATAA
ATATTTGTTGGATGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1462

MGRGWGFLFGLLGAVWLLSSGHGEEQPPETAARCFQCQVSGYLDDCTCDVETIDRFNNYRLFPRLOKLLES DYFR
YYKVNLRPCPFWNDISQCGRRDCAVKPCQSDEVDPGKISASYKYSEEANNLIEECEQAERLGAVDESLSEETQK
AVLQWTKHDDSSDNFCEADDIQSPEAEYVDLLNPERYTGYKGPD AWKIWNVIYEENC FKPTIKRPLNPLASGQ
GTSEENTFYSWLEGLCVEKRAFYRLISGLHASINVHLSARYLLQETWLEKKWGHNITEFQQRFDGILTEGEGPRR
LKNLYFLYLIELRALSKVLPFFERPDFQLFTGNKIQDEENKMLLLEILHEIKSFPLHFDENSFFAGDKKEAHKLK
EDFRLHFRNISRIMDCVGCFKCRLWGKLQTQGLGTALKILFSEKLIANMPESGPSYEFHLTRQEIVSLFNAFGRI
STSVKELENFRNLLQNIH

1643/2777
FIGURE 1463

GGCTAATGCACAGACATGAACATCTATTGAGGAAAACCAAAAAAAGCTTCAAAACAGCTACAACGGTATCCTAAG
AATATTTCAATTAAATATTAGTATGCTGCTGAAGGCACTAATTATTAAGAACTTAAATTATCAATCTTTCTT
GAATTTCTGATAGAGAAGTAAACTATTTTCCAAAAGCTATTTTTCAGAAATGTTCACTGATACATAAAAACTGCTA
GCATCTAATTAAAGATCACTAAGGGTTAAATACTGTTCTCTGGCCCTTACTGCGCACACCCTGCCAAAACATCCT
CTAAGCTTTTAAATATTGCTTCGATGGTCTGAATTTTATTTCCAGGGAAAAAGAGAGTTTTGTCCACAGTCAG
CAGGCCACTAGTTTATTAACTTCCAGTCACCTTGATTTTGTCTAAAATGAAGACTCTGCAGTCTACACTTCTCCT
GTTACTGCTTGTGCTCTGATAAAGCCAGCACCAACCCAGCAGGACTCACGCATTATCTATGATTATGGAAC
AGATAATTTTGAAGAATCCATATTTAGCCAAGATTATGAGGATAAATACCTGGATGGAAAAATATTAAGGAAAA
AGAACTGTGATAATACCCAATGAGAAAAGTCTTCAATTACAAAAAGATGAGGCAATAACACCATTACCTCCCAA
GAAAGAAAATGATGAAATGCCACGTGTCTGCTGTGTGTTTGTTTAAGTGGCTCTGTATACTGTGAAGAAGTTGA
CATTGATGCTGTACCACCCTTACCAAAGGAATCAGCCTATCTTTACGCACGATTCAACAAAATTAAGGCTGAC
TGCCAAAGATTTTGCAGACATACCTAACTTAAGAAGACTCGATTTTACGGGAAATTTGATAGAAGATATAGAAGA
TGGTACTTTTTCAAAAGCTTTCTCTGTGTTAGAAGAACTTTCACTTGCTGAAAATCAACTACTAAAAGCTTCCAGTTCT
TCTCCCAAGCTCACTTTATTTAATGCAAAATACAACAAAATCAAGAGTAGGGGAATCAAAGCAAATGCATTCAA
AAAAGTGAATAACCTCACCTTCTCTACTTGGACCATAATGCCCTGGAATCCGTGCCTCTTAATTTACCAGAAAG
TCTACGTGTAATTCATCTTCAGTTCAACAACATAGCTTCAATTACAGATGACACATTCTGCAAGGCTAATGACAC
CAGTTACATCCGGGACCGCATTGAAGAGATACGCCTGGAGGGCAATCCAATCGTCTGGGAAAGCATCCAACAG
TTTATTTGCTTAAAAAGATTACCGATAGGGTCATACTTTTAACTCTATTGGTACAACATATAAATGAAAGTAC
ACCTACACTAATAGTCTGTCTCAACAATGTGTAAAGGAAGCTTAAGTATTGGTTTAATATTAACCTTGTATCTCAT
TTTGAAGGAATTTAATATTTTAAAGCAAGGATGTTCAAAATCTTACATATAATAAGTAAAAAGTAAGACTGAATGT
CTACGTTGCAAAACAAAGTAATATGAAAATATTTAAACAGCATTACAAAATCCTAGTTTATACTAGACTACCATT
AAAAATCATGTTTTTATATAAATGCCCAAATTTGAGATGCATTATTCCTATTACTAATGATGTAAGTACGAGGAT
AAATCCAAGAAAAGCTTTCAACTCTTTGCCTTTCTGCTTTACTGGATCCCAAAAGCATTTAAGGTACATGTTCC
AAAAAGCTTTGAAAAGCTAAATGTTTCCCATGATCGCTCATTCTTTTATGATTACATACGTTATTCTTTATAAA
GTAAGAAGCTTTGTTTTCTCTCTATCAAGGCAGCTATTTTATTAAATTTTCACTTAGTCTGAGAAATAGCAGATA
GTCTCATATTTAGGAAAAGCTTTCCAAATAAAATAAATGTTATTCTCTGATAAAGAGCTAATACAGAAATGTTCAA
GTTATTTTACTTTCTGGTAATGTCTTCAGTAAAATATTTTCTTTATCTAAATATTAACATTCTAAGTCTACCAA
AAAAGTTTTAAAGCTCAAGCAGGCCAAAACCAATATGCTTATAAGAAATAATGAAAAGTTCATCCATTTCTGATAA
AGTTCTCTATGGCAAAGTCTTTCAAATACGAGATAACTGCAAAATATTTTCTTTTATACTACAGAAATGAGAAT
CTCATCAATAAATTAGTTCAAGCATAAGATGAAAACAGAATATTCTGTGGTGCCAGTGCACACTACCTTCCCACC
CATACACATCCATGTTCACTGTAACAACTGAATATTCAACAATAAAGCTTCTGAGTAACACTTTCTGATTACTCA
TGATAAACTGACATGGCTAACTGCAAGAATTAAATCTTCTATCTGAGAGTAATAATTTATGATGACTCAGTGGTG
CCAGAGTAAAGTTTCTAAAATAACATTCTCTCACTTGTACCCCACTAAAAGTATTAGTCTACACATTACATTGA
AGTTAAACACAAAATTTATCAGTGTTTTAGAAACATGAGTCCGACTGTGTAAGTAAAAAGTACAAACATTATTTCC
ACCATAAAGTATGTATTGAAATCAAGTTGTCTCTGTGTACAGAATACATACTTATTCCCATTTTTAAAGCATTGTC
TTCTGTTTTCCCTACCTAGAAATGTCAGATGTTTTTTCAGTTATCTCCCCATTTGTCAAAGTTGACCTCAAGATAAC
ATTTTTCATTAAAGCATCTGAGATCTAAGAACACAATTATTATTCTAACAATGATTATTAGCTCATTCACTTATT
TTGATAACTAATGATCACAGCTATTATACTACTTTCTCGTTATTTTGTGTGCATGCCCTCATTTCCCTGACTTAAA
CCTCACTGAGAGCGCAAAATGCAGCTTTATACTTTTACTTTCAATTGCCTAGCACAAATAGTGAGTACATTGAA
TTGAATATATAATAAATATTGCAAAATAAATCCAAAAAAGAAAAA

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FIGURE 1464

MKTLQSTLLLLLLVPLIKPAPPTQQDSRIIYDYGTDNFEESIFSQDYEDKYLDGKNIKEKETVIIPNEKSLQLQK
DEAITPLPPKKENDEMP TCLLCVCLSGSVYCEEVDIDAVPPLPKESAYLYAREFNKIKKLTAKDFADIPNLRRLDF
TGNLIEDIEDGTFSKLSLLEELSLAENQLLKLPLPPKLTLENAKYNKIKSRGIKANAFKKLNNLTFLYLDHNAL
ESVPLNLPESLRVIHLQFNNIASITDDTFCKANDTSYIRDRIEEIRLEGNP IVLGKHPNSFICLKRLPIGSYF

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FIGURE 1465

CTATGATGATTTGTAGGGTGGCACCTTTTTATCCAAGTTACTAGCTACACATCAGTGTTTAAAGAGAAAAAGTG
ACCTTTTCATTTTTTTTTTTCTTGAACTTGAGGAAACAAGATACATACTACTGATTTTTTTTTTTCTTAAACTAA
ATGCATGACTGCAGAGCGGTAGAGGTGTATATTTTTCTACTGTGGGGCAAAGTATTTGTGCTGCTTTTTGGAGA
TGGACTGGAACGTCGTGTTTCTGTCCCCGGGCCCCGGCAGCTACGTCTATTTTCTGTAGAAGGTGCCACAGTGAGA
CCTGGAGCCACCCCTTCCTGCCCTGGCGCCGTTTAGAGCTGGGAGCCCGTGGACTCCCGGCCTGTTTCTACCTTC
TATTCAACCACTCTGACGTGGGGAGACAAGAAGAAATAGAACTTTTTGATAGTGTGGTAAAAACATTGATTTGAA
CTATTTTAGTAAAAGGAGTAACAAACAAGATTGTGATAGTGTCTACTTTGAGCTAGATAAATAAAGGCCTCTTTG
TGAGCCTCCTGGCTGGGTGCTCAGTGCTTGTTCGTGTCGTGGGTGGCAGGGTCAGCAGGCAGAGACAGGGCCAAG
GCCCCCAAGCACCGCAGATGGGGGCTCAGTCGGGGCCCCCTTCCACAGACAGAGCCGTGGCCCCCTCAAGGTGGAC
AGTGAGGCCCGCTGCTCCTCCAGCTGCCTCTGTCTCATCACAGGCCAGAAGTGGAAGGGTTTTCAAATCCAAGCCC
CCGGGTTCCGTGTGTGCGTTCTACGCAGCAAGGCTTCAAAGTTTCAAACCTGGTTTGGAACCTCAACCAGGTCCTCCA
AAGGAAACCAAGGCAGGCACAGGATGGGGGCAGGCTGGCTTGGCAGGCAGCTGTGCGGATCCACCCAGAGTGCCT
TGGGAGGCAGTGGGGTTGGCTGTGGCTGCTGTGAGCTGCAGCCAGGCCTCTCCCGCGTCCCAGGGTCTGGAAGG
AGGGCCTCTGCACATTTTATAAGCCACAGACTGCGAAGGCCTGGAGCCCCACCTTCCACCCATAACAAAGAAAGG
GATAGTTTCAGAACTGCTTTTATTTGGATAACTGACTGAAGGAGTCTCATTGTGAACCAAGATGGAATTCACAGT
ATGTTGTTACATTCACACTTAAAAAATATATCTCTATGTACAGGAATTTGCAAAGAGATGTAAACATACATTAAT
TTCCAAGTACATTTCTCCCCTTCTCCCTGGAGGAAAAAAAAAAGCCATCCAATGAGGCAACCCCTTCAAATAA
TTTAAATACAAAGGATGCAACATCAAAAAAAAAAAAAA

1646/2777
FIGURE 1466

MGAQSGPLPQTEPWPLKVDSEAAAPPAASVSSQARSGKGFKSKPPGSCVIRSTQQGFKVSNWFGTQPGPPKETKAG
TGWGQAGLAGSCADPPRPWEAVGLAVAAVSCSQASPASFGSGRRASAHFISHRLRRPGAPPSTHNKERDSFRTA
FIWITD

1647/2777
FIGURE 1467A

CAGCGCTGCTCCCCGGGCGCTCCTCCCCGGGCGCTCCTCCCCAGGCCTCCCGGGCGCTTGGATCCCGGCCATCTC
CGCACCCCTTCAAGTGGGTGTGGGTGATTTCTGGCGGGGGGAGCAGCCAGGTGAGCCCAAGATGCTGCTGCGCTC
GAAGCCTGCGCTGCCGCCGCGCTGATGCTGCTGCTCCTGGGGCCGCTGGGTCCCCTCTCCCCTGGCGCCCTGCC
CCGACCTGCGCAAGCACAGGACGTGCTGGACCTGGACTTCTTCACCCAGGAGCCGCTGCACCTGGTGAGCCCCCTC
GTTCTGTCCGTACCATTTGACGCCAACCTGGCCACGGACCCGCGGTTCTTCATCCTCCTGGGTTCTCCAAAGCT
TCGTACCTTGGCCAGAGGCTTGTCTCCTGCGTACCTGAGGTTTGGTGGCACCAAGACAGACTTCCTAATTTTCGA
TCCCAAGAAGGAATCAACCTTTGAAGAGAGAAGTTACTGGCAATCTCAAGTCAACCAGGATATTTGCAAATATGG
ATCCATCCCCTCCTGATGTGGAGGAGAAGTTACGGTTGGAATGGCCCTACCAGGAGCAATTGCTACTCCGAGAACA
CTACCAGAAAAAGTTCAAGAACAGCACCTACTCAAGAAGCTCTGTAGATGTGCTATACACTTTTGCAAAGCTGCTC
AGGACTGGACTTGATCTTTGGCCTAAATGCGTTATTAAGAACAGCAGATTTGCAGTGAACAGTTCTAATGCTCA
GTTGCTCCTGGACTACTGCTCTTCCAAGGGGTATAACATTTCTTGGGAAGTAGGCAATGAACCTAACAGTTTCTC
TAAGAAGGCTGATATTTTCAATCAATGGGTGCGAGTTAGGAGAAGATTTTATTCAATTGCATAAACTTCTAAGAAA
GTCCACCTTCAAAAATGCAAACCTCTATGGTCTGATGTTGGTCAGCCTCGAAGAAAGACGGCTAAGATGCTGAA
GAGCTTCCTGAAGGCTGGTGGAGAAGTGATTGATTCAGTTACATGGCATCACTACTATTTGAATGGACGGACTGC
TACCAGGGAAGATTTTCTAAACCTGATGTATTGGACATTTTATTTTCATCTGTGCAAAAAGTTTCCAGGTGGT
TGAGAGCACCAGGCCTGGCAAGAAGGTCTGGTTAGGAGAAACAAGCTCTGCATATGGAGGCGGAGCGCCCTTGCT
ATCCGACACCTTTGCAGCTGGCTTTATGTGGCTGGATAAATTGGGCCTGTCAGCCCGAATGGGAATAGAAGTGGT
GATGAGGCAAGTATTTCTTTGGAGCAGGAACTACCATTTAGTGGATGAAAACCTTCGATCCTTTACCTGATTATTG
GCTATCTCTTCTGTTCAAGAAATTGGTGGGCACCAAGGTGTTAATGGCAAGCGTGCAAGGTTCAAGAGAAGGAA
GCTTCGAGTATACCTTCATTGCACAAACACTGACAATCCAAGGTATAAAGAAGGAGATTTAACTCTGTATGCCAT
AAACCTCCATAATGTACCAAGTACTTGCGGTTACCCTATCCTTTTTCTAACAAGCAAGTGGATAAATACCTTCT
AAGACCTTTGGGACCTCATGGATTACTTTCCAAATCTGTCCAACCTCAATGGTCTAACTCTAAAGATGGTGGATGA
TCAAACCTTGCCACCTTTAATGGAAAAACCTCTCCGGCCAGGAAGTTCACTGGGCTTGCCAGCTTTCTCATATAG
TTTTTTTGTGATAAGAAATGCCAAAGTTGCTGCTTGCACTCTGAAAAATAAAATATACTAGTCCTGACACTGAATTT
TTCAAGTATACTAAGAGTAAAGCAACTCAAGTTATAGGAAAGGAAGCAGATACCTTGCAAAGCAACTAGTGGGTG
CTTGAGAGACACTGGGACACTGTCAGTGCTAGATTTAGCACAGTATTTTGATCTCGCTAGGTAGAACACTGCTAA
TAATAATAGCTAATAATACCTTGTTCCAAATACTGCTTAGCATTTTGCATGTTTTACTTTTATCTAAAGTTTTGT
TTTGTTTTATTATTTATTTATTTATTTATTTTGTGACGGAGAGAGATTCCATCTCAAAAAACAAGTTATTA
ATGTATATGAATGCTCCTAATATGGTCAGGAAGCAAGGAAGCGAAGGATATATTATGAGTTTTAAGAAGGTGCTT
AGCTGTATATTTATCTTTCAAAATGTATTAGAAGATTTTAGAATTCCTTCTCATGTGCCATCTCTACAGGCAC
CCATCAGAAAAAGCATACTGCCGTTACCGTGAAACTGGTTGTAAAAAGAGAACTATCTATTTGCACCTTAAAAGA
CAGCTAGATTTTGCTGATTTTCTTCTTTTCGGTTTTCTTTGTGACGAATAATATGTGAGAGGACAGATTGTTAGAT
ATGATAGTATAAAAAATGGTTAATGACAATTCAGAGGCGAGGAGATTCTGTAACTTAAATTAATAAATGAA
ATTGATTTGTCAAGAGGATAAATTTTAGAAAACACCCAATACCTTATAACTGTCTGTTAATGCTTGCTTTTCTC
TACCTTTCTTCCTTGTTTCAGTTGGGAAGCTTTTGGCTGCAAGTAACAGAACTCCTAATTCAAATGGCTTAAGC
AATAAGGAAATGTATATTTCCACATAACTAGACGTTCAAACAGGCCAGGCTCCAGCACTTCAGTACGTACCCAGG
GGATCTGGGTTCTTCCCAGCTCTCTGCTCTGCCATCTTTAGCGCTGGCTTCATTCTCAGACTCTGGTAGCATGAT
GGCTGTAGCTGTTTCATGGGCCCTTCAAACCTCATAGCAACCAGAGGAAGAAAATGAGCCATTTTTTGAGTCTC
CTTCATAGACTTGAATAACTCTTTTTTCAGAGCTTCTCACAGCAAACCTCTCCTCATGTCTCCTCATGTCTTATTG
TTCAGAAATGGGTAATGTGGCCATTTACCAGTCACTGCCAACAACAACGAGGTTCTATAATTGCTCTGAGTA
ACCTTTTGAATGGAGAGGGTGTTGGTCAGTCTACAACTGAACACTGCAGTTCTGCGCTTTTTTACCAGTGAAAA
AATGTAATTATTTCCCCTCTTAAGGATTAATATTCTTCAAATGTATGCCTGTTATGGATATAGTATCTTTAAAA
TTTTTTATTTTAATAGCTTTAGGGGTACACACTTTTGTCTACAGGGGTGAATTGTGTAGTGGTGAAGACTCGGC
TTTTAATGTACTTGTACCTGAGTGATGTACATTGTACCCAATAGGTAATTTTTCATCCATTACCCTCCTTCCGC
CCTCTTCCCTTCTGAGTCTCCAACATCCCTTATACCACTGTGTATGTTCTTGTGTACCTACAGCTAAGCTTCCAC
TTATAAGTGAGAACATGCAGTATTTGGTTTTCCATTCTGAGTTACTTCCCTTAGGATAACAGCCCCCAGTTCCG
TCCAAGTTGCTGCAAAATACATTATTCTTTTATGGCTGAGTAATAGTCCATGGTACATATATACCACATTTTC
TTTATCCACTTATCAGTTGATGGACACTTAGGTTAATTCATTCAATTTCAATTCAATTTAAGTATATTTGTAAGG

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FIGURE 1467B

AGCTAAAGCTGAAAATTAAATTTTAGATCTTCAATACTCTTAAATTTTATATGTAAGTGGTTTTTATATTTTCA
CATTGAAATAAAGTAATTTTATAACCTTGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1468

MLLRSKPALPPPLMLLLLGPLGPLSPGALPRPAQAQDVVDLDFFTQEPLHLVSPSFLSVTIDANLATDPRFLILL
GSPKLRTLARGLSPAYLRFGGTKTDFLIFDPKKESTFEERSYWQSQVNDICKYGSIPPDVEEKLRLWEPYQEQ
LLREHYQKKFKNSTYSRSSVDVLYTFANC SGLDLIFGLNALLRTADLQWNSSNAQLLLDYCSSKGYNISWELGNE
PNSFLKKADIFINGSQLGEDFIQLHKLLRKSTFKNAKLYGPDVGQPRRKTA KMLKSFLKAGGEVIDSVTWHHYLL
NGRTATREDFLNPDVLDIFISSVQKVFQVVESTRPGKKVWLGETSSAYGGGAPLLSDTFAAGFMWLDKLGLSARM
GIEVVMRQVFFGAGNYHLVDENFDPLPDYWLSLLFKKLVGTVLMA SVQGSKRRKLRVYLHCTNTDNPRYKEGDL
TLYAINLHNVTKYLRLPYF SNKQVDKYLLRPLGPHGLLSKSVQLNGLTLKMVDDQTLPLMEKPLRPGSSLGLP
AFSYSFFVIRNAKVAACI

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FIGURE 1469

ATAGTCTACACAGAGCTCCCCTTGCTGCCCAGACAAGCTGAAGGACCACAGGAAAAGCCATGGAGACTTCAGCAT
CCTCCTCCCAGCCTCAGGACAACAGTCAAGTCCACAGAGAAACAGAAGATGTAGACTATGGAGAGACAGATTTCC
ACAAGCAAGACGGGAAGGCTGGACTCTTTTCCCAAGAACAATATGAGAGAAACAAGTCTTCTCCTCCTCCTTCT
CTCCTCCTCATCCTCCTCATCTTCTTCATCCTCCTCCTCCTCAGGTCTTGGGCATGGGGAGCCTGACGTTTTGA
AGGATGAGCTTCAACTCTATGGAGATGCTCCTGGAGAGGTGGTACCCTCTGGGGAATCAGGACTCCGAAGGAGAG
GCTCTGACCCAGCAAGTGGAGAAGTGGAGGCCTCTCAGTTAAGAAGACTGAATATAAAGAAAGATGATGAGTTTT
TCCATTTTCGTCCTCCTGTGCTTTGCCATCGGGGCCTTGCTGGTGTGTTATCACTATTACGCAGACTGGTTCATGT
CTCTTGGGGTCGGCCTGCTCACCTTCGCCTCCCTGGAAACCGTTGGCATCTACTTCGGACTAGTGTACCGTATCC
ACAGCGTCTCTCAAGGCTTCATCCCCCTCTTCCAGAAGTTTAGGCTGACAGGGTTCAGGAAGACTGACTAGAGGCC
ACTTCCAGGTGGGCAGCAGAGGCAGGCCCCAGTGTGACCACCACTGCGACCCCTGAGCCCACAAGGGCAGAGCAG
CATTCTGAGAGACGCACAGGAGACCAAGCCAGACCAATAAACAGAACACTTTTCTTCCATGTGGTCTGAATGTT
GGCACCAGCCCAGGGCAGGGGCATCTCATTTGGGCAGTACTGCTGTGCAACCCAGCTGCAAGGATGGAAGGCAGAG
GGTGGGTGTGGGGCCTGAGGCTTCACAGTACCTGGACCAGCAGGAAGATTCTGGGAGGTCACTGCTCTCAGAGGA
CAGCAAGGGACCCTGAGCTCTGCAAGCTGTGATCTGTCTGGGTTTCATGGTTTTTCTCAAATCCCAGGCTATCTGC
ATGCGCTCTCAGGTGCTACCGAGCCATCCTGGGAGAGATGGATGGTCCACTGCTTTGAGGCAGGGAGCCATCGGG
CTGGGGCCCCCTTGGTGAACCTGATGCAGGTAAGATGCTGAGGACTAAAACCATTTTTTTTTTGACCCAAAAA
GGCAGGAAAATGATCATCAGAACTAAATGGCAGCCAGGCATGGGGGCTCACGACTGTAATCCTCGCACTTTGGG
AGGCTCAGGCTAAGGGTCGCTTGAAGCTGAGAGTTCAAGACCAACCTGGGCAACATAGTGAGACCCCATCTCTA
CAATTTTTTTTTTAATGACCAAATGTGGCGGTACATACCTGTACATACCTGCGGTTCCAGCTACTCAAGAGGCTGA
GGCAGGAGGACTGCTTGAGCCAGGAGTTCAGGGCTGCAGTGAGGTACGATCAAGCCACTGCACTCCAGCCTGGG
CGACAGAGCAAGATCGTTTCTCTAAATT

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FIGURE 1470

METSASSSQPDNSQVHRETEDVDYGETDFHKQDGKAGLFSQEQYERNKSSSSSFSSSSSSSSSSSSSSSGPGHG
EPDVLKDELQLYGDAPGEVVPSEGLRRRGSDPASGEVEASQLRRLNIKKDDEFFHFVLLCFAIGALLVCYHYY
ADWFMSLGVGLLTFASLETVGIYFGLVYRIHSVLQGFIPLFQKFRLTGFRKTD

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FIGURE 1471

ATTAATCTGGCCGTGCCATGCATCTACTCCATGTTTCAGGCTTGTGGAGAGGTACGAGATGCCACGGCACGAAGTC
TACGTTCTCCTGATCCGAAACATCTTTTTGAAAATATCAATCATTGGCATTCTTTGTTACTATTGGCTCAACACC
GTGGCCCTGTCTGGTGAAGAGTGTGGGAAACCTCATTTGGCCAGGACATCTACCGGCTCCTTCTGATGGATTTT
GTGTTCTCTTTAGTCAATTCCTTCCTGGGGGAGTTTCTGAGGAGAATCATTGGGATGCAACTGATCACAAGTCTT
GGCCTTCAGGAGTTTGACATTGCCAGGAACGTTCTAGAACTGATCTATGCACAACTCTGGTGTGGATTGGCATC
TTCTTCTGCCCCCTGCTGCCCTTTATCCAAATGATTATGCTTTTCATCATGTTCTACTCCAAAAATATCAGCCTG
ATGATGAATTTCCAGCCTCCGAGCAAAGCCTGGCGGGCCTCACAGATGATGACTTTCTTCACTCTTCTTGCTCTTT
TTCCCATCCTTCACCGGGGTCTTGTGCACCCTGGCCATCACCATCTGGAGATTGAAGCCTTCAGCTGACTGTGGC
CCTTTTCGAGGTCTGCCTCTCTTCATTCACTCCATCTACAGCTGGATCGACACCCTAAGTACACGGCCTGGCTAC
CTGTGGGTGTTTGGATCTATCGGAACCTCATTGGAAGTGTGCACTTCTTTTTCATCTCACCCTCATTGTGCTA
ATCATCACCTATCTTTACTGGCAGATCACAGAGGGAAGGAAGATTATGATAAGGCTGCTCCATGAGCAGATCATT
AATGAGGGCAAAGATAAAATGTTCTGATAGAAAAATTGATCAAGCTGCAGGATATGGAGAAGAAAGCAAACCCC
AGCTCACTTGTTCTGGAAAGGAGAGAGGTGGAGCAACAAGGCTTTTTGCATTTGGGGGAACATGATGGCAGTCTT
GACTTGCGATCTAGAAGATCAGTTCAAGAAGGTAATCCAAGGGCCTTGATGACTCTTTTGGTAACCAGACACCAAT
CAAATAAGGGGAGGAGACGAAAATGGAATGATTTCTTCCATGCCACCTGTGCCTTTAGGAACTGCCAGAAGAAA
ATCCAAGGCTTTAGCCAGGAGCGGAACTGACTACCATGTAATTATCAAAGTAAAATTGGGCATTCCATGCTATT
TTTAATACCTGGATTGCTGATTTTTCAAGACAAAATACTTGGGGTTTTCCAATAAAGATTGTTGTAATATTGAAA
TGAGCCTACAAAACCTAGGAAGAGATAACTAGGGAATAATGTATATTATCTTCAAGAAGTGTGTGCAGGAATGA
TTGGTTCTTAGAAATCTCTCCTGCCAGACTTCCCAGACCTGGCAAAGGTTTAGAACTGTTGCTAAGAAAAGTGG
TCCATCCTGAATAAACATGTAATACTCCAGCAGGGATATGAAGCCTCTGAATTGTAGAACCTGCATTTATTTGTG
ACTTTGAACTAAAGACATCCCCATGTCCCAAAGGTGGAATACAACCAGAGGTCTCATCTCTGAACTTTCTTGCG
TACTGATTACATGAGTCTTTGGAGTCGGGGATGGAGGAGGTCTGCCCTGTGAGGTGTTATACATGACCATCAA
AGTCCTACGTCAAGCTAGCTTTGCAGTGGCAGTACCGTAGCCAATGAGATTTATCCGAGACGCGATTATTGCTAA
TTGGAAATTTTCCAATACCCACCGTGATGACTTGAAATATAATCAGCGCTGGCAATTTTGTACAGTCTCTACG
GAGACTGAATAAG

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FIGURE 1472

MFRLVERYEMPRHEVYVLLIRNIFLKISIIIGILCYWLNNTVALSGEECWETLIGQDIYRLLLMDVFVSLVNSFLG
EFLRRIIGMQLITSLGLQEFDIARNVLELIYAQTLVWIGIFFCPLLPIQMIMLFIMFYSKNISLMMNFQPPSKA
WRASQMMTFFIFLLFFPSFTGVLCTLAITIWRLKPSADCGPFRGLPLFIHSIYSWIDTLSTRPGYLWVWVIYRNL
IGSVHFFFIILT LIVLIITYLYWQITEGRKIMIRLLHEQI INEGKDKMFLIEKLIKLDMEKKANPSSLVLERREV
EQQGFLHLGEHDGSLDLRSRRSVQEGNPRA

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FIGURE 1473

CACCCGTGGTGCCCCATCCCTATAGGAGCTGGTGAGATTGCAGCCTGCTGCCTCCCCTCCATCAGCCACAGCTAT
TGGATTTCCCACCCAGAATCTTTAGGTAAATGAGATCATGATTCTGGAAGGAGGTGGTGTAAATGAATCTCAACCC
CGGCAACAACCTCCTTCACCAGCCGCCAGCCTGGACAGACAGCTACTCCACGTGCAATGTTTCCAGTGGGTTTTT
TGGAGGCCAGTGGCATGAAATTCATCCTCAGTACTGGACCAAGTACCAGGTGTGGGAGTGGCTCCAGCACCTCCT
GGACACCAACCAGCTGGATGCCAATTGTATCCCTTTCCAAGAGTTCGACATCAACGGCGAGCACCTCTGCAGCAT
GAGTTTGCAGGAGTTTACCCGGGCGGCAGGGACGGCGGGGAGCTCCTCTACAGCAACTTGCAGCATCTGAAGTG
GAACGGCCAGTGCAGTAGTGACCTGTTCCAGTCCACACACAATGTCAATTGTCAAGACTGAACAACTGAGCCTTC
CATCATGAACACCTGGAAAGACGAGAATATTTATATGACACCAACTATGGTAGCACAGTAGATTTGTTGGACAG
CAAACTTTCTGCCGGGCTCAGATCTCCATGACAACCACCAGTCACTTCCCTGTTGCAGAGTCACCTGATATGAA
AAAGGAGCAAGACCCCCCTGCCAAGTGCCACACCAAAAAGCACAACCCGAGAGGGACTCACTTATGGGAATTCAT
CCGCGACATCCTCTTGAACCCAGACAAGAACCAGGATTAATAAAATGGGAAGACCGATCTGAGGGCGTCTTCAG
GTTCTTGAAATCAGAGGCAGTGGCTCAGCTATGGGGTAAAAAGAAGAACAACAGCAGCATGACCTATGAAAAGCT
CAGCCGAGCTATGAGATATTACTACAAAAGAGAAATCTGGAGCGTGTGGATGGACGAAGACTGGTATATAAATT
TGGGAAGAATGCCCCGAGGATGGAGAGAAAATGAAAACTGAAGCTGCCAATACTTTGGACACAAACCAAAACACAC
ACCAATAATCAGAAACAAAGAACTCCTGGACGTAAATATTTCAAAGACTACTTTTCTCTGATATTTATGTACCA
TGAGGGGAACAAGAACTACTTCTAACGGGAAGAAGAAACACTACAGTCGATTAAAAAAATTATTTTGTACTTC
GAAGTATGTCCTATATGGGGAAAAACGTACACAGTTTTCTGTGAAATATGATGCTGTATGTGGTTGTGATTTTT
TTTACCTCTATTGTGAATCTTTTTCTACTGCAAGAGTAACAGGATTTGTAGCCTTGTGCTTCTTGCTAAGAGAA
AGAAAAACAAATCAGAGGGCATTAAATGTTTTGTATGTTACATGATTTAGAAAAAGGTGATGCATCCTCCTCAC
ATAAGCATCCATATGGCTTCGTCAAGGGAGGTGAACATTGTTGCTGAGTTAAATTCAGGGTCTCAGATGGTTAG
GACAAAGTGGATGGATGCCGGGAAGTTAACCTGAGCCTTAGGATCCAATGAGTGGAGAATGGGGACTTCCAAAA
CCCAAGGTTGGCTATAATCTCTGCATAACCACATGACTTGAATGCTTAAATCAGCAAGAAGAATAATGGTGGGG
TCTTTATACTCATTAGGAATGGTTTTATCTGATSCCAGGGCTGTCTTCTTTCTCCCCCTTTGGATGGTTGGTGAA
ATACTYTAATTGCVCTGTCTGCTCACTTCTASCTATTTAAGAGAGAACCAGCTTGGTTCTTTTTTGTCTCCAAGT
GCTTAAAAATAAGTTGGAAGGAGAGCGGTGGTGTGAAATGGCTGAAGAGTTTGTCTTGTATCCCTATAGTC
CAAGGTTTCTCAATCTGCACAATTGACATTKKGGCCGGAGTGTTCTTTTDDTXARGGCTTTCTGTGCATTGT
AAGATGTTTCAAGSAGTATCCACTCATGGTCTCTAACCCTTGACACCAGAAACCCCCCAGCTGTGATAACGCAAAA
TSTCTCTABACATCACCAAAATKTTCCCTGGGGGGGGCAAATTTGCCTTTGATTGAGAACCACCAGTTTAGCTAGT
CAATATGAGGATGGTGGTTTATTCTCAGAAGAAAAAGATATGTAAGGTCTTTTAGCTCCTTAGAGTGAAGCAAAA
GCAAGACTTCAACCTCAACCTATCTTTATGTTTTAAATGTTAGGGACAATAAGTTGAAATAGCTAGRGGVGCTTC
TYTTCAGAACCCAGATGAGAGCCAATGTGAGATAAAGTAAGCATAGTAATGTAGCAGGAACYACAATAGAAGAC
AWWWCACTGGMATTACAAAGCAGAADTAAAATTATATTGTAGAAGGAAACACCAAGAAAAGAATTTCCAGGGAA
AATCCTCTTTTGCAGGTATTAATTCTTATAATTTTTTGTCTTTTGGATTATCTGTTTACTGTCTCATCTGAAGTG
ATCCAGGTGAACGGTTTATTGCCTAGATTTGTACTCAGAGGAATTTTTTTTGTGTTTTGTCTTTTAAGAAA
GGAAAGAMAGGATGAAAAAATAAACAGAAAACCTCAGCTCAGGCACAATTRTCACCAAGGAGTTAAAAGCTTCTT
CTCAATMGGARGGWWTKTTCTGGGGGKYCYKRRRMTAMCMWTGAGCCATGCAATCTGGGAAGCACAGGAATAA
GTAGACACTTTGAAAATGGATTTSAATGTTCTCATCCCTTTTGCAGCTTTTCTTTTGGCTCTCTCATGTCCTTG
GCTTGCTCCTCTATTCKACCTCTTTTCTCCAGCAATAATATGCAATGAAGACATGTATCCATAAGAAGGAGTG
CTCTTCATCACTAATAGAGCACCTACCACAGTGTACACCTGGTAGAGGTGRGCAATTYATATTYAAAGGTTGC
AAAGTGTGTTGTAATATATTGATGAGGCTGGAAGTAAGRAGAATTAATAATTTKTCCTAATTACAATGAGAACCAT
TCTAGGTAGTGATCTTGGDGCACACATGAATAACTTTCTDAAGGTGCAACCAATCCATTTTTATTCTGCCTGR
AGYTTGDCACCTCTGRGGAGGATGGGGCTTAGATAGTATCGAATGACWATTACTGWGAAAACTTRARAAAARAG
CGAGGGGGCW

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FIGURE 1474

MILEGGGVMNLNPGNNLLHQPPAWTDSYSTCNVSSGFFGGQWHEIHPOYWKYQVWEWLQHLLDTNQLDANCIPF
QEFDINGEHLCSMSLQEFTRAAGTAGQLLYSNLQHLKWNGQCSSDLFQSTHNVIVKTEQTEPSIMNTWKDENLY
DTNYGSTVDLLDSKTFCRAQISMTTTSHPVAESPDMKKEQDPPAKCHTKKHNPGRGTHLWEFIRDILLNPDKNPG
LIKWEDRSEGVFRFLKSEAVAQLWGKKNNSSMTYEKLSRAMRYYYKREILERV DGRRLVYKFGKNARGWRENEN

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FIGURE 1475

CGGCCTCAGAAAGCCGAGTGAGGAGTTGGCCGTAGTGAGAGGGACCGATCCCTTGGGGCCGCCGGCGGCGAGGCC
GAGCCGCTCCTCCCAATGGCGAAGAAGACGTACGACCTGCTTTTCAAGCTGCTCCTGATCGGGGATTCCGGAGTG
GGGAAGACCTGCGTCCCTTTTCGTTTTTCGGATGATGCCTTCAATACTACCTTTATTTCCACCATAGGAATAGAC
TTCAAGATCAAAACAGTTGAATTACAAGGAAAGAAGATCAAGCTACAGATATGGGATACAGCAGGCCAGGAGCGA
TTTACACCATCACAACTCCTACTACAGAGGCGCAATGGGTATCATGCTAGTATATGACATCACCAATGGTAAA
AGTTTTGAAAAACATCAGCAAATGGCTTAGAAACATAGATGAGCATGCCAATGAAGATGTGGAAAAGATGTTACTA
GGAAACAAGTGTGATATGGACGACAAAAGAGTTGTACCTAAAGGAAAAGGAGAACAGATTGCAAGGGAGCATGGT
ATTAGGTTTTTTTGAGACTAGTGCAAAAGCAAATATAAACATCGAAAAGGCGTTCCCTCACGTTAGCTGAAGATATC
CTTCGAAAGACCCCTGTAAAAGAGCCCAACAGTGAAAATGTAGATATCAGCAGTGAGGAGGCGTGACAGGCTGG
AAGAGCAAATGCTGCTGAGCATTCTCCTGTTCCATCAGTTGCCATCCACTACCCCGTTTTCTCTTCTTGCTGCAA
AATAAACCACTCTGTCCATTTTTAACTCTAAACAGATATTTTTGTTTCTCATCTTAAGTATCCAAGCCACCTATT
TTATTTGTTCTTTCATCTGTGACTGCTTGCTGACTTTATCATAATTTTCTTCAAACAAAAAAATGTATAGAAAAA
TCATGTCTGTGACTTCATTTTTAAATGTACTTGCTCAGCTCAACTGCATTTAGTTGATTATAGTCCAGTTCTT
ATCAACATTAAAACCTATAGCAATCATTTCAAATCTATTCTGCAAATTGTATAAGAATAAAGTTAGAATTAACAA
TTTTATTTGTACAACAGTGGAATTTTCTGTCTATGGATAATGTGCTTGAGTCCCTATAATCTATAGACATGTGAT
AGCAAAAGAAACAAACAAAAGCCAGGAAAACACTCATTTTCGCCTTGAATATGTAAATGGGATTAATTTTGTCTT
GTGCTTATGTGGAAGGGACTTCTTTGGGTTTTCTTTTTTGTCTGGTGGAAGCATGTGCAGGGAGACCATAT
CATCCAAACCATAAACCCATTAAATGTTTGTGGTTTGTCTGGCTGTAATTTTCAAAGTAGTTAATTGAGGACAA
AGGGTAATGCAGAAGTGATAGCTTTGGTTTGTCTGAGTCTTGTTTTAAGTGGCCTTGATATTTAAACTATTCTCTG
CCACCATTTCTTCTCCTTGGCCACTTCTTCTTGCCTCTCCCTGCATGCTGCTTTATTTGCTTCTCCCTCCCCAA
CCACCTCATGGTATATTTAAGAGTGAAAGGGACAAACTAGTAGGTTTGTCAAGTTAATATAAAGCACTGATGTA
ACTTGCTAGGTAAACGGAAAGATAAGTTCTAACTGCCTACTATCCAATGTCAGTTAATTGGTGTCTTCCCCCTC
ATTTGCTCTCTTCCCTAAAATGTGTCCAGATGCCTTCATTTGCTGTTTTACTTCTATGTTCTGCTTTTCTCTCT
CTCTTTGTTCCCTTCCGTCTATCCATTGAGTTTATGAAATGGAAGAGTTAACTGCATGCACTAGTGTTTGGAGG
GTGTTGTGGTTTGTCTTTCTAATTAGGTGTATAGCCTATTCACTTTCTAGGAATAAATCTCTTAACCTAAATTT
GAGTAGTCTGCATTTTGGCAACTCCTCTAAGCAGCTTGGTAGCCTAAGTACAGGTTGTTTTTTTAAAAAAGGAAA
AGCAGGAAGGAGGAGTGAATTTTATTAACATGTTTGCCAAATGTATTGAGATTGGCCTCTGAAGAACACTTTTT
CAGTGTTAAGTTTCTTTACCTTAAGATTCCGAAATACTTTAGAATATTATTAATTTTAAAGTCTGTCTTTACATC
CTTTTGAAAACTTGATTACCATGAGTTTGGAAAAAGGACAACGAAAGGCTTTTCATGTAAAGATAAGATCTTT
AGCTATCTCTAACCCTGTCTTTTTTCACTGCATTTTTTCTAGTTTTGCTTCATTGCTTATCATTAGGATAGGGT
AAGTGAAAGTTTGCTATGCTGCTAGCATCCTAAGATGATACCTTTGTTGAAAAGAAATTGTGAATAGCATGATTCAAT
TCTAGCAGAGGCTGAGTTTAGGACAGCAGCTTCCATTGAGAAGTCTTTCTGTGTCGTGAATAGCATTTTAAATGAC
CTCTTGGCTCACATAAGCAAACAACATAGGGACGTATCTGCTATGAAAATCCACAAATTTTTAGATAGTGCCCT
AAAAACAATTTTATATGCCTCACTGGTTGTTATTCTTAGGTTATTCCACACTTGACTTTATCATTGTTTACTAC
TAGTAAAAAGCAGCATTGCCAAATAATCCCTAATTTTCCACTAAAAATATAATGAAATGATGTTAAGCTTTTTGA
AAAGTTTAGGTTAAACCTACTGTTGTTAGATTAAATGTATTTGTTGCTTCCCTTTATCTGGAATGTGGCATTAGCT
TTTTTATTTTAAACCTCTTTAATTCTTATTCAATTCCATGACTTAAGGTTGGAGAGCTAAACACTGGGATTTTTG
GATAACAGACTGACAGTTTTGCATAATTATAATCGGCATTGTACATAGAAAGGATATGGCTACCTTTTGTTAAAT
CTGCACTTTCTAAATATCAAAAAAGGGAAATGAAGTATAAATCAATTTTGTATAATCTGTTTGAACATGAGTT
TTATTTGCTTAATATTAGCTTTGCCCCTTTTCTGTAAGTCTCTTGGGATCCTGTGTAGAAGCTGTTCTCATTAAA
CACCAAACAGTTAAGTCCATTCTCTGGTACTAGCTACAAATTCGGTTTCATATCTACTTAACAATTTAAATAAA
CTGAAATATTTCTAGATGGTCTACTTCTGTTTCATATAAAAAACAAAACCTTGATTTCAAAAA
AAAAAAAAAAAAAAAA

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FIGURE 1476

MAKPTYDLLFKLLLLIGDSGVGKTCVLFRRFSDDAFNTTFFISTIGIDFKIKTVELQGKKIKLQIWDTAGQERFHTIT
TSYYRGAMGIMLVYDITNGKSFENISKWLRNIDEHANEDVERMLLGKNCMDMDKRVVPGKGGEQIAREHGIRFFE
TSAKANINIEKAFLTLAEDILRKTPVKEPNSENVDISSGGGVIGWKSICC

[illegible]

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FIGURE 1478

MVKYFLGQSVLRSSWDQVFAAFWQRYPNPYSKHVLTEDIVHREVTPDQKLLSRRLLTKTNRMPRWAERLFPANVA
HSVYVLEDSIVDPQNQTMTTFTWNINHARLMVVEERCVCVNSDMSGWTEIRREAWVSSSLFGVSRVQEFGLAR
FKSNVTKTMKGFEYILAKLQGEAPSKTLVETAKEAKEKAKETALAATEKAKDLASKAATKKQQQQQQFV

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FIGURE 1479

CTCGTGACAACTCTTCGGGTGCCCTTCGAGAGAAAAGGGGAGGATGCCACTGGAGTCATCCTCTTCAATGCCACTA
TCCTTCCCCTCTCTCTTACCCTCAGTACCACACAATACTAACCCTTCCCCTCCTCTGATGTCTTACATCACCTCC
CAGGAGATGAAGTGATTCTTCACTGGTTTGCCAATTGGTCAGGTCCCCAGCGTGAACGTTTCCTAGAGGACCTG
GTAGCTAAGGCAGTGCCAGAAAAATTACAACCACTGCTGGATAGTCTGGAGCAGCTTAGTGTTCTGGGGCAGAC
CGACCACCTTCTATCTTTGAGTGCCAGCTACATCTTTGGGATCAGTGGTTTTCGAGGCTGGGCTGAGCAGGAGCGC
AATGAATTTGTCAGACAGCTGGAGTTCAGTGAGCCAGACTTCGTGGCAAAGTTTTACCAAGCAGTGGCTGCTACA
GCTGGTAAGGACTGATAGGCATTAGACCAAAGAAGATAACCATAGCTGATGGAGCCATGACTCTCTACAATGAT
AACTCAATTCAAATGTGTTGCCTAAAGCTCTGGAAGTGGTATTCCAACCAGCTGACCGAAGCTCACTGACCAGTAC
AGGCATGGTTATTTCAACATTAATAGCATGTCAACTGGACTCCTATTTGTAAATGTTATCAATCTAAGCAATCCA
GCTCATCAGTCTACTAGTTTGCTTCTTTCCGAGAGATGTCAAGTCCCTCAAGAATTTGATGGCTTCTTCTGCAGCT
ATAACCACAAGGAACCTACACATTGTAAGTCAAGTCCACTGCTGGCTCATGAAATGTGTAAAGTAGAACCTCCT
TCCCGAGAAATAAGACAGGACAATAAAAGGTGGCGTTTTTGTACTTTACCTGGATTCCATTGGCTGGTTTTTACCA
CTCCTATCAGATTGTAGTGTAAATTGTGTGATACGCAAACCATAGTTTTTCCAGTGATGATTTAATAAAATTATG
AAAAATCAGGAGAGGGAGATAATTAGTTGCTTCCCTCCTTCACACTGTTTGAATCGAACTCGCGGTGACTTTTTTT
TTTTTTTAAAAACATGGGTTGTCACTTAAGTTTGGAGTGCAGTGGCATGATCATCAGTGAGCGTGAGATCACTGT
GACCTCAAATTCAGGCTGAAGTAATCTTCTGCCTCAGTCTCCTGAGTATCTAGGACTACAGGCCCGCACACA
ATATCTGGCTAATTTTAAATTATTCTGTAGATACAGGGGTGATGCTACGTTTTCTAGTCTGGTCTTGAAGTGT
GGCTCAAGCGATCCATTCTCACCTTGGCCTCCCAAAGTGTGGGATTACAGGCATGAACCATCATACCTGGCCT
TTTTCTAAGGCATATGTATGTGATATTCTTGGAAGTGGTAGCAGGTGTTCTATTCTGTAAGTTTGCTTTACAAC
AATACGAAAATAAGTGACAATTTACAGGTTGAACAATTTATTTTTGTACCAAATAAAGAATGGATCTTTAGAAC
TGTAAGAACTTCACCCTTTTTTCAATTGCCAGGCTATATAATATTGACAACCGGGGAAAGAGGCATTCCAAAGAAAG
TAGAAATTAAGTATACACAATAGATTTTCCATCCAGTTGTCTCACAAGAAATTATTTCTCTTCCCTTACCCCTGT
ATGTTCTGGGCAACATCATACCTCCCTTATTCCTCTAAGTGGGACCTTGTGCTGTGGAGCTCTGGTGAATGGTA
AGAGGCAGATGGTCTCACAGGAAGAGTGGCTCTTTTCTGGTAGGCTGTGGTTCCCATTACACCCACCAGGATTAG
CAGCATTAGGCAGAGTCCCATGGACAGCCTTAGGTGGGTGATGGAGGGATTATGGTCTGAAGTAACCAGCAACCT
AGGAACATAGAAGGTAATATTTGGCATGGAATAATGCCTAGCCTTAGTAGATAAAGCGGCATTACCTTTTTTTTT
TTTTTTTTTTGGAGACAAGGTCTTGGTCTGTTGCCAGGCTGGAGTGCAGTGGTGTGATCTTGGCTCACCGTAAT
CTCCGCTCCCAGGCTCAAGCAATCTCCTGCCTCAACCTTCCGAATAGCTGGGACTACAGGCGCACGCCGACC
ACCACGTCTGGCTAAGGGGCTTTACCCTTAAAGATAGAGCTCATGAAGCCCCGCTCATCCAAGCATTAGCTAA
ACAGGAAATCATTAAGAGGGACTATCGAACCTTAAAGTAGAAATAAGATCAAGATCTAAGTCTTCTAGCATCTTA
TATTATTGGAAGAAGACCTAAGTGGCAGCAAGGGAAGTGGCTTAAGGGAAGAGTCAGTCTATGTTCTTTAGGTA
GCTAGACACAATCCCTAACAGTGCTTAAGAAAGGAAGGGGGCTGGGAGTGGTGGCAGTGGCTCCAGCACTTTGG
GAGGCAGAGGCCGGTGGGTTGCTTTAGCTCAGGAGTTGGAGACAAGCCTGGGCAACATGGTGAAGTGTCTCTAT
CAAAAATACAAAAATTAGCTGGCATGGTGGTGTGCACCTGTAGTCCCAGCTACTTGGGAGGCTGAGGTGGGGGAA
TCATTGAGCCTAGGGAGGTGAGGCCACAGTGAGCTGAGATCACCCACTGCATTCAGCCTGGGTGACAGAGC
GAGACCCTGTCTCAAAAAAGAAGAAGAAAAAGGTGGGGGGAGGGGACTAAGATCCCTATGTCTTAGAGATGGGG
AATGTGTTATTGTATGGGAGGAGGGAGTCAGGTAGTGACGGGACTGGATGATCGTGTAGGGATCTTTGTTCTCT
GAAACGCAACCTGTCTAGGACAATATACAGTGAGTGAGTGCTTAATAAATTTAATTTCAAACAAAAA
AAAAA

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FIGURE 1480

MPLESSSSMPLSFPSLLPSVPHNTNPSFPLMSYITSQEMKCILHWFANWSGPQRERFLEDLVAKAVPEKLQPLLD
SLEQLSVSGADRPPSIFECQLHLWDQWFRGWAEQERNEFVRQLEFSEPDFVAKFYQAVAATAGKD

1662/2777
FIGURE 1481

CGGATGGGGCGTAGGTGGGCGGTGCGCCACAGCTGCCTGGGTAAGGCCCAAGATGGCTGTCTTCGCCTTAGTAC
TCGTGTGAAGTTGGCGGGGACGGTTCCTGTCATCTTCTTGGGCTTATTTGGTGTGCTGTTGAAGGGGGGAGACTA
GAGAAATGGCAGGGAAACCTCTTATCCGGGGCAGGTAGGCGCCTGTGGGACTGGGTGCCTCTGGCGTGCAGAAGCT
TCTCTCTTGGTGTGCCTAGATTGATCGGTATAAGGCTCACTCTCCCGCCCCCAAAGTGGTTGATCGTTGGAACG
AGAAAAGGGCCATGTTCCGGAGTGTATGACAACATCGGGATCCTGGGAACTTTGAAAAGCACCCCAAAGAACTGA
TCAGGGGGCCCATATGGCTTCGAGGTTGAAAGGGAATGAATTGCAACGTTGTATCCGAAAGAGGAAAATGGTTG
GAAGTAGAATGTTGCTGATGACCTGCACAACCTTAATAAACGCATCCGCTATCTCTACAAACACTTTAACCGAC
ATGGGAAGTTTCGATAGAAAGAGAAAGCTGAGAACTTCGAAAAGGCTCATCTGTCACCCTGGAGAAGGGAACTG
TACTTTTCCCTGTGAGGAAACGGCTTTGTATTTTCTCTGTAATAAAATGGGGCTTCTTTGGAAAAAAAAAAAAA
A

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FIGURE 1482

MAGNLLSGAGRRLWDWVPLACRSFSLGVPRLIGIRLTLPKVVDRWNEKRAMFGVYDNIGILGNFEKHPKELIR
GPIWLRGWKGNELQRCIRKRKMVGSRMFADDLHNLNKRIRYLYKHFNHRHGKFR

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FIGURE 1483

GGCTCATTCTGCTCCCCCGGGTCGGAGCCCCCGGAGCTGCGCGCGGGCTTGCAGCGCCTCGCCCCGCGCTGTCTT
CCCGGTGTCCCGCTTCTCCGCGCCCCAGCCGCCGGCTGCCAGCTTTTCGGGGCCCCGAGTCGCACCCAGCGAAGA
GAGCGGGCCCCGGGACAAGCTCGAACTCCGGCCGCCTCGCCCTTCCCCGGCTCCGCTCCCTCTGCCCCCTCGGGGT
CGCGCGCCCCACGATGCTGCAGGGCCCTGGCTCGCTGCTGCTGCTCTTCTCGCCTCGCACTGCTGCCTGGGCTCG
GCGCGCGGGCTCTTCTCTTTGGCCAGCCCGACTTCTCCTACAAGCGCAGCAATTGCAAGCCCATCCCGGCCAAC
CTGCAGCTGTGCCACGGCATCGAATACCAGAACATGCGGGCTGCCCAACCTGCTGGGGCCACGAGACCATGAAGGAG
GTGCTGGAGCAGGCCGGCGCTTGGATCCCGCTGGTTCATGAAGCAGTGCCACCCGGACACCAAGAAGTTCTGTGC
TCGCTCTTCGCCCCCGTCTGCCTCGATGACCTAGACGAGACCATCCAGCCATGCCACTCGCTCTGCGTGCAGGTG
AAGGACCGCTGCGCCCCGGTCACTGTCGCCCTTCGGCTTCCCCTGGCCCGACATGCTTGAGTGCAGCCGTTTCCCC
CAGGACAACGACCTTTGCATCCCCCTCGCTAGCAGCGACCACCTCCTGCCAGCCACCGAGGAAGCTCCAAAGGTA
TGTGAAGCCTGCAAAAATAAAAATGATGATGACAACGACATAATGAAAACGCTTTGTAAAAATGATTTTGCAGTG
AAAAATAAAGTGAAAGGAGATAACCTACATCAACCGAGATACCAAAATCATCCTGGAGACCAAGAGCAAGACCATT
TACAAGCTGAACGGTGTGTCCGAAAGGGACCTGAAGAAATCGGTGCTGTGGCTCAAAGACAGCTTGCAGTGCACC
TGTGAGGAGATGAACGACATCAACGCGCCCTATCTGGTCATGGGACAGAAACAGGGTGGGGAGCTGGTGATCACC
TCGGTGAAGCGGTGGCAGAAGGGGCAGAGAGAGTTCAAGCGCATCTCCCGCAGCATCCGCAAGCTGCAGTGCTAG

TCCCGGCATCCTGATGGCTCCGACAGGCCTGCTCCAGAGCACGGCTGACCATTCTGCTCCGGGATCTCAGCTCC
CGTTCCCCAAGCACACTCCTAGCTGCTCCAGTCTCAGCCTGGGCAGCTTCCCCCTGCCTTTTGCACGTTTGCATC
CCCAGCATTTCCTGAGTTATAAGGCCACAGGAGTGGATAGCTGTTTTACCTAAAGGAAAAGCCACCCGAATCT
TGTAAGAAATATTCAAACATAATAAATCATGAATATTTTTATGAAGTTAAAAATAGCTCACTTTAAAGCTAGTTT
TGAATAGGTGCAACTGTGACTTGGGTCTGGTTGGTTGTTGTTTGTGTTTTGAGTCAGCTGATTTTCACTTCCCA
CTGAGGTTGTCATAACATGCAAATTGCTTCAATTTTCTCTGTGGCCCAAACCTGTGGGTACAAACCCTGTTGAG
ATAAAGCTGGCTGTTATCTCAACATCTTCATCAGCTCCAGACTGAGACTCAGTGTCTAAGTCTTACAACAATTCA
TCATTTTATACCTTCAATGGGAACCTAAACTGTTACATGTATCACATTCCAGCTACAATACTTCCATTTATTAGA
AGCACATTAACCATTTCTATAGCATGATTTCTTCAAGTAAAAGGCAAAAGATATAAATTTTATAATTGACTTGAG
TACTTTAAGCCTTGTTTTAAACATTTCTTACTTAACTTTTGCAAATTAAACCCATTGTAGCTTACCTGTAATATA
CATAGTAGTTTACCTTTAAAGTTGTAAAAATATTGCTTTAACCAACACTGTAAATATTTAGATAAACATTATA
TTCTTGTATATAAACTTTACATCCTGTTTTACCTATAA

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FIGURE 1484

MLQGPGLLLLFLASHCCLSARGLFLFGQPDFSYKRSNCKPIPANLQLCHGIEYQNMRLPNLLGHETMKEVLEQ
AGAWIPLVMKQCHPDTKKFLCSLFAPVCLDDLDETIQCHSLCVQVKDRCAPVMSAFGFPWPDMLECDRFPQDND
LCIPLASSDHLPLATEEAPKVCEACKNKNDNDNDIMETLCKNDFALKIKVKEITYINRDTKIILETKSKTIYKLN
GVSERDLKKSVLWLKDSLQCTCEEMNDINAPYLVMGQKQGELVITSVKRWQKGQREFKRISRSIRKLQC

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FIGURE 1485

GGCACGAGGGTTGGACGTGTTTCGCTTGGGTTTCCTGCTGCGGCAGCCACCTCGCAATCTCTCTGCATCGATCGCCG
CTCGCAAGCTACTGACCGTACTCGGGCGTATTAGGAGCCGCGTTCCAGCCTCACACCCACGGTGCTGTTTTCGA
CTTCAGAAAGGATCTAGCCTCAGCACAGAAGCGCCTCAGGCGCGGCGCAAAGCTCGAGCGGACGGCGGGGGCGGC
CGGAGCCTCTCTCGGGGGAGCCGCGCCTGAGGAGGCGGAAGAACCCCCCTGACGCGACTGGCGTGTGCTTCTGCC
CGCCACCGCCCCCTCCCGCTCTCACCCGGGCGCTCCCTGGCCACTGCCCCCTGCCGCGGAGGCAGCGGCGGCAGCGG
CTCTCCTTTCCACAGCCGGCGCTCCGCGACCCGCTTGGCTCCTGAGCCCGCTCGGGTAGGCTCTCCTCGAGTTCCC
GCTCTTACCCCCCTCCCTCACCCCTCTTCTTTCGTACCCGTCCTCCCGACCCACCCGAGCCCGGCGCCTCAGCTGC
CCCCGGCCATGGCGTGCGGAGCCACTCTGAAAAGGACTCTGGATTTTCGACCCGCTGTTGAGCCCGGCGTCCCCGA
AGCGCAGGCGATGTGCGCCATTGTGCGCGCCACCTCGGCCGCTGCCTCCCCGTTGTGCGGCGGCCGCGGCCACCG
CCGCCTCCTTCTCCGCTGCGGCCGCTCGCCGCAGAAGTATCTCCGAATGGAGCCATCCCCCTTCGGCGACGTCT
CCTCCCGCCTCACCCACAGAACAAATTCTGTACAACATAAAACAAGAGTATAAACGAATGCAGAAGAGAAGACATT
TAGAAACGAGTTTCCAACAGACAGATCCGTGTTGTACTTCTGATGCACAGCCACATGCATTTCTCCTCAGTGGAC
CAGCTTCACCAGGGACTTCATCTGCAGCATCCTCACCATTAAAAAAGAACAGCCCTTATTTACTCTACGGCAGG
TTGGGATGATCTGTGAACGTTTGTGAAAGAACGTGAAGAGAAAGTTCGAGAAGAATATGAAGAAATATTGAACA
CAAACTTGCAGAACAAATATGATGCGTTTGTGAAGTTTACGCATGATCAAATAATGCGACGATATGGAGAACAGC
CTGCTAGCTATGTTTCATGAATCACGTATCCTGCATTTGTGGGCTGCCTTGTTCCCTGTTGAGTTGTTGCAAGAG
GTCCAATTATGACATGCAGCAATGCCAATACCCCTTCTGTGAATACAGGTTATTTCAAGCTTTCGTCAGTGGCA
ACCACTCTTAGGCAGCAGCAACTGGTTTTGGAAATTTCCCTGATGTCAGTACCACCTGGATGTGGACCTTTGCTA
CCTGTATTAATACCAGTGGCCTCATTTTGTGTATCATTACAATTTGGCTTCTTATATTAATGTTTGAAGGAT
TAAAGCTGGTATTCTAGAACATGCCCTTCACTGGTTGTGTAAATAAACTGTAGAATGACAAAAAAAAAAAAAA
AAAAAA

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FIGURE 1486

MACGATLKRTLDFDPLLSPASPKRRRCAPLSAPTSAAASPLSAAAATAASFSAASASPQKYLRMEPSFPGDVSSR
LTTEQILYNIKQEYKRMQKRRHLETSFQQTDPCCTSDAQPHAFLLSGPASPGTSSAASSPLKKEQPLFTLRQVGM
ICERLLKEREKVVREYEEILNTKLAEQYDAFVKFTHDQIMRRYGEQPASYVS

GGACGACGGGAGAGAGAGAGAGAGGGGCATTGCTGGCCTGTAGCTCCTGTTACCCACCCAGAGCCAGGCCAGCTG
GAGGCTCCCAGGCGGGAGGGCCAGGCCACCCACGGGCGTCTGGCCGGTCAAGCTCCCAGCCTGGGCCGTGGTC
TCCTGGGGACGCCGCTGGCCTCCCAGCTTAGGCCAGGTGCCAGGTGTCATGGGGTCTCCTGCCCATCTTCCCAA
GGATGCCATTGCTGTCTTCATCGTCTTCCCCCGTGTGAGACACTGGTTGTCTGGTACTCGGCGACAGTGTACCAG
ACGCGCACCCCTATGTGAGGTGCTTTAAGGTCCCTGTCCCTCAGGAAGCGCAGTCTGGTGGAAGAGATGAGCGCTGA
ACAAATCACTAAATTAACACAAAAACAACATGTAAGCAGCACTTTCTTGTTGTAATAAAAAAAAAAAAAAGCACGTCC
GTCGATGAATTTTGAGTCTCTCTGCCTTGCCCTGTCCCGACTCCCTTTCGCGCACCGTGGCATGAGAATCTTTCCCT
CACGCTGTTTCGTTGCGGTATTGCTGAGCATTGATGTTGATTTGAAGGAAAAAGCCGTGGTTGGACCCAGCTGTGTG
TTTCACTCACGTGCAATTGAGTAGCTGTTGCCAGGCTGTCCATGCCCTGTTGTGACTACCGGTTGGGGTCAGATTT
GGGGTGAAGAATGAGTAAGTTTCTGCATGCTTTGTCTCTACCTGAGACACTTCTACAACAAGCCAAGTATAATCT
CTCCAGCCCTGCAGATTTTCACTGACTTGTTCAGCCCCATGCGTAGACTCCCGCTGCAGGCCCTTGCCCTGTGG
CTCACTGCATGCAGCCCCCTGGCGTGCAATACTAGTGCTCCACGGCGCGATGTGCTTCTAGCCCTTGCACTGCACC
TAGGCTCAGGGTTCAAACGGCCAGCCCGAAAAAGCCTGCCTGCCCTTCTTTCTGGAACAGCACGTCCCCGGCCGTG
TGCTTGCCCCCTTCTCTACTGAGCTAGTCCCCAAACCAAAGGCAAGCCCCCTCGGGCCTCGGGGGATGGGGCCGG
CCACACCCCTGACTCCGCCCTGGCTCTGCCCCATAACCCCTGCCGTGGGGCCGACCTGGGGGATGCAGACATCCGG
CTCCGTATTCTTGCCCTATCGGGGCCAGGATGCAAAAACAATTTTTCGCTAAAAGATGTCACACTGATCTGCTGGA
GTGGGGTGGACACATGAATTCAGTTTTATCATGAACACTCGCCACTGGCTGCTTGTTAATTCAGGGATAATGGTG
GCATTCTTACAAACTGCTCGGGAAATAGAAATGACGGGAACACTTTTAGGGAGCCCAGGAAGTTACCAGGGACATT
GGTGTGCGCCGGCCAGGCAACAGCAGCGTACGCTTTTCAAAGATCATTGAGTTGTCTTAGAATTTGAAGCTGTGT
AATGACAAATGTCACCTGGAGTTCGTCTCCATTTCTTAACTTTTTGTTGCACAAGTATTTGGACAGAAGTCGAAC
GTGAATGAGATACTGAAATGCACTAAATTGTATTACATTAAACTGGAGTTACTTGATACAATGAAAAAAAAAAAA
AAAAAA

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FIGURE 1488

MGSPAHLPKDAIAVFIVFPRVRHWLSGTRRQCTRRAPYVRCFKVPVLRKRSLVEEMSAEQITK

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FIGURE 1489

GTGACATTGAGCTCACCAGCGCCACCGTCCCCGGCGAAGTTCTGCGCTGGTCGGCGGAGAGCAAGTGGCCATGGG
GAGCCTCAGCGGTCTGCGCCTGGCAGCAGGAAGCTGTTTTAGGTTATGTGAAAGAGATGTTTCCTCATCTCTAAG
GCTTACCAGAAGCTCTGATTTGAAGAGAATAAATGGATTTTGCACAAAACCACAGGAAAGTCCCGGAGCTCCATT
CCCGCACTTACAACAGAGTGCCCTTTACACAAACCTACGGATTGGCAGAAAAAGATCCTCATATGGTCAGGTCGCT
TCAAAAGGAAGATGAAATCCCAGAGACTGTCTCGTTGGAGATGCTTGATGCTGCAAAGAACAAGATGCGAGTGAA
GATCAGCTATCTAATGATTGCCCTGACGGTGGTAGGATGCATCTTTCATTGGTTATTGAGGGCAAGAAGCTTGCC
CAAAGACCGAGACTTTAACCAGCTTGGACCTTTAGAAAAGAAAGCTCGTCTGAAAGAAGGAAGCAGCTATGAAGG
CCAAAACAGATTACCAAAGGTATCCGTGTGTGGTTGGGATTTTGAAAATCCAGGAATTATGTTTTAACGTGCCTGT
ATTAAAAAGGATGTGGTATGAGGATCCATTTCATAAAGTATTGATTTGCCCAAACCTGTACCATTTCCGTATTTCT
GCTGTAGAAGTAGAAATAAATTTTCTTAAATAATGACTGTGTTTTATTGTTTTGATCCAAGTCAAGTGTAGCCTC
TCAGCCTTTTGGAGAAAAATGAAACAATTTATTTCAACTTGAATACCAACTCTTCAGAGAAGCAGGTACCATATC
TTACTTCTCTTCCCATTATCAAAGTAACCTCTCCACAGGCGAACTCATTTTGAGGAGATAAGGAAGGCCAGTTGA
GTATATGGCCCAGGTGCAGCTTGGAGGGCCAGCCTTCTCAAATGTCCTGGTGTACTGGTGGGGAGGCTGCCCCCT
AATAGAGCGAGCGCTGAGAAGCAGCCAGACCACATTCTATAATCTTTGAACATGCTGGCAGATGGAGGCTTTTAG
GAGAATAGTTTTTTAAACATTCTGACAAGGTCCAGCCAGGAATTTCTAAGGACTTAGAAATCCCAGTGTATGGA
GTTGCTTGGGGGTCAACACAAGTCACCTCTTAGCTTCATGCCTTAGAATTCTCAACTGGGCTGTTTTTCTTACCA
CCTGAGAACTAAAT

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FIGURE 1490

MGSLSGRLRLAAGSCFRLCERDVSSSLRLTRSSDLKRINGFCTKPQESPGAPFPHLQOSAFTQTYGLAEKDPHMVR
SLQKEDEIPETVSLEMLDAAKNKMRVKISYLMIALTVVGCIFHWLLRARS LPKDRDFNQLGPLEKKARLKEGSSY
EGQNRLPKVSVLVGILKIQELCFNVPVLKRMWYEDPFHKV

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FIGURE 1491A

GAGCCGGTGGCGCAGGTGTCGGGGTCTCTGAGCGCCAGCCTGGGAGC**ATGA**TTGTGGACAAGCTGCTGGACGAC
AGCCGCGGCGGAGAGGGGCTGCGGGACGCGGCGGGCGGCTGCGGCCTCATGACCAGCCCGCTCAACCTGAGCTAC
TTCTACGGCGCGTCGCCGCCGCCGCCGCCCGGGCGCCTGCGACGCCAGCTGCTCGGTCTTGGGCCCTCGGCG
CCCGGCTCGCCCGGCTCCGACTCCTCCGACTTCTCCTCTGCCTCGTTCGGTGCTCTCTGCGGCGCCGTGGAGTCC
CGGTCGAGAGGCGGCGCCCGCGCCGAGCGCCAGCCAGTTGAGCCCCATATGGGGGTTGGCAGGCAGCAGAGAGGC
CCCTTTCAAGGTGTTTCGGGTAAAGAACTCAGTGAAGGAACTCCTGTTGCACATCCGAAGTCATAAACAGAAGGCT
TCTGGCCAAGCTGTGGATGATTTTAAGACACAAGGTGTGAACATAGAACAGTTCAGAGAATTGAAGAACACAGTA
TCATACAGTGGGAAAAGGAAAGGGCCCCGATTTCGTTGTCTGATGGACCTGCTTGCAAAAGGCCAGCTCTGTTGCAT
TCCCAATTTTTGACACCACCTCAAACACCAACGCCCCGGGGAGAGCATGGAAGATGTTTCATCTCAATGAACCCAAA
CAGGAGAGCAGTGCTGATCTGCTTCAGAACATTATCAACATTAAGAATGAATGCAGCCCCGTTTCCCTGAACACA
GTTCAAGTTAGCTGGCTGAACCCCGTGGTGGTCCCTCAGAGCTCCCCCGCAGAGCAGTGTGAGGACTTCCATGGA
GGGCAGGTCTTTTCTCCACCTCAGAAATGCCAACCACTTCCAAGTCAGGGGCTCCCAACAAATGATAGACCAGGCT
TCCCTGTACCAGTATTCTCCACAGAACCAGCATGTAGAGCAGCAGCCACACTACACCACAAACCAACTCTGGAA
TACAGTCCTTTTCCCATACCTCCCCAGTCCCCCGCTTATGAACCAACCTCTTTGATGGTCCAGAATCACAGTTT
TGCCCAAACCAAAGCTTAGTTTCCCTTCTTGGTGATCAAAGGGAATCTGAGAATATTGCTAATCCCATGCAGACT
TCCTCCAGTGTTTCAGCAGCAAAATGATGCTCACTTGCACAGCTTCAGCATGATGCCAGCAGCGCTGTGAGGCC
ATGGTGGGGCACGAGATGGCCTCTGACTCTTCAAACACTTCACTGCCATTCTCAAACATGGGAAATCCAATGAAC
ACCACACAGTTAGGGAAATCACTTTTTTCAGTGGCAGGTGGAGCAGGAAGAAAGCAAATTGGCAAATATTTCCCAA
GACCAGTTTCTTTCAAAGGATGCAGATGGTGACACGTTTCTTCATATTGCTGTTGCCCAAGGGAGAAGGGCACTT
TCCTATGTTCTTGCAAGAAAGATGAATGCACTTCACATGCTGGATATTAAAGAGCACAATGGACAGAGTGCCTTT
CAGGTGGCAGTGGCTGCCAATCAGCATCTCATTGTGCAGGATCTGGTGAACATCGGGGCACAGGTGAACACCACA
GACTGCTGGGGAAGAACACCTCTGCATGTGTGTGCTGAGAAGGGCCACTCCCAGGTGCTTCAGGCGATTGAGAAG
GGAGCAGTGGGAAGTAATCAGTTTGTGGATCTTGAGGCAACTAACTATGATGGCCTGACTCCCCCTCACTGTGCA
GTCATAGCCCACAATGCTGTGGTCCATGAACCTCAGAGAAATCAACAGCCTCATTCACCTGAAGTTCAGGAGCTT
TTACTGAAGAATAAGAGTCTGGTTGATACCATTAAAGTGCCTAATTCAAATGGGAGCAGCGGTGGAAGCGAAGGAT
CGCAAAAGTGGCCGCACAGCCCTGCATTTGGCAGCTGAAGAAGCAAATCTGGAACCTATTGCGCTCTTTTTGGAG
CTGCCCAGTTGCTGTCTTTTGTGAATGCAAAGGCTTACAATGGCAACACTGCCCTCCATGTTGCTGCCAGCTTG
CAGTATCGGTTGACACAATTAGATGCTGTCCGCTGTTGATGAGGAAGGGAGCAGACCCAAGTACTCGGAACCTG
GAGAACGAACAGCCAGTGCATTTGGTTCCCGATGGCCCTGTGGGAGAACAGATCCGACGTATCCTGAAGGGAAAG
TCCATTGAGCAGAGAGCTCCACCGTATT**TAG**CTCCATTAGCTTGGAGCCTGGCTAGCAACACTCACTGTGAGTTAG
GCAGTCCGTGATGTATCTGTACATAGACCATTGCGCTTATATTGGCAAATGTAAGTTGTTTCTATGAAACAAACAT
ATTTAGTTCATTATTATATAGTGGGTTATATTAAGAAAGAAAGAAAGAAATATCTAATTTCTTGGCAGATTTG
CATATTTATACCCAGGTATCTGGGATCTAGACATCTGAATTTGATCTCAATGGTAACATTGCCTTCAATTAACA
GTAGCTTTTGAGTAGGAAAGGACTTTGATTTGTGGCACAACAAACATTATTAATATAGCTATTGACAGTTTCAAAGC
AGGTAAATTGTAAATGTTTCTTTAAGAAAAAGCATGTGAAAGGAAAAAGGTAAATACAGCATTGAGGCTTCATTT
GGCCTTAGTCCCTGGGAGTTACTGGCGTTGGACAGGCTTCAGTCATTGGACTAGATGAAAGGTGTCCATGGTTAG
AATTTGATCTTTGCAAACCTGTATATAATTGTTATTTTTGTCTTAAAAATATTGTACATACTTGGTTGTTAACAT
GGTCATATTTGAAATGTATAAGTCCATAAAATAGAAAAGAACAAAGTGAATTGTTGCTATTTAAAAAATTTTACA
ATTCCTACTAAGGAGTTTTTATTGTGTAATCACTAAGTCTTTGTAGATAAAGCAGATGGGGAGTTACGGAGTTGT
TCCTTTACTGGCTGAAAGATATATTGCAATTGTAAAGATGCTTTTTCTCATGCATTGAAATTATACATTATTTGT
AGGGAATTGCATGCTTTTTTTTTTTTTTCTCCCGAGACAGGGTCTTGCTCTGGCGCCAGGCTGGAGTACAGTGG
CATGATCTTGGCTCACTTCAGCCTTGACTTGGGCTCAAGTGATCCTCCTACCTGAGCCTTCTGAGTAACTGGGAC
TACAGGTGTGCACTCCTCGCCTGGCTAATTTTTTATTTTTTGTACAGGCAGGATCTTGCCACCTTGCCAGGCTG
GTCTTGAACCTCTGAGCTCATGCCATCTGCCTGCCTTAGTCTCCCAAAATGCTGGGATTACAGGAGTGAGCCACC
ATGCCCCGCTGGCAGTTGCATGGAAGAGAACACCTCTTTATGGCTTACCCTCTAGAATTTCTAATTTATGTTTC
TGTTGAAATTTTTGTTTTTTTACCTTTATTGAAACAACAAAAAGTCAGTATTGAAACATATCTTCCTGTTTTCTG
TTGTCAAATGATGATAATGTGCCATGATGTTTTATATATATCATTCAGAAAAAGTTTTATTTTTTAATAACATTC
TATTAACATTATTTTGCTTGCCGCTGGCATGCCTGAGGAATGTATTTGGCTTTGATTACACACTAAGTTTTTGTA

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FIGURE 1491B

ATAAATTTGACTCATTAAAAACCTTTTTTTTTTAAAAAAAAAAAAAGAAAATCTCATTAGTGAACCTTATCTTTG
CAGCTGAGTACTTAAATTCTTTTTAAAAAGATACCCTTTGGATTGATCACATTGTTTGACCCAGTATGTCTTGTA
GACACGTTAGTTATAATCACCTTGTATCTCTAAATATGGTGTGATATGAACCAGTCCATTACATTGGAAAACT
GATGGTTTTAAATAAACTAATCACTAATAAAAAAAAAAAAAAA

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FIGURE 1492

MIVDKLLDDSRGGEGLRDAAGGCGLMTSPLNLSYFYGASPPAAAPGACDASCSVLGPSAPGSPGSDSSDFSSASS
VSSCGAVESRSRGGARAERQPV EPHMGVGRQQRGPFQGV RVKNSVKELL LHIRSHKQKASGQAVDDFKTQGVNIE
QFRELKNTVSYSGKRKGPD SLSDGPACKRPALLHSQFLTPPQTPTPGESMEDVHLNEPKQESSADLLQNIINIKN
ECSPVSLNTVQVSWLNPVVVPQSSPAEQCQDFHGGQVFSPPQKCQPFQVRGSQQMIDQASLYQYSPQNQHVEQQP
HYTHKPTLEYSFPPIPPQSPAYEPNLFDGPESQFCPNQSLVSL LGDQRESENIANPMQTSSSVQQQND AHLHSFS
MMPSSACEAMVGHEMASDSSNTSLPFSNMGNPMNTTQLGKSLFQWQVEQEESKLANISQDQFLSKDADGDTFLHI
AVAQGRRALSYVLARKMNALHMLDIKEHNGQSAFQVAVAAHQHLIVQDLVNIGAQVNTTDCWGRTPLVCAEKGH
SQVLQAIQKGAVGSNQFVDLEATNYDGLTPLHCAVIAHNAVVELQRNQPHSPEVQE LLLKNKSLVDTIKCLIQ
MGAAVEAKDRKSGRTALHLAAEEANLELIRLFLELP SCLSFVNAKAYNGNTALHVAASLQYRLTQLDAVRLLMRK
GADPSTRNLENEQPVHLVPDGPVGEQIRIRILKGKSIQQRAPPY

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FIGURE 1493

GGGCTTCGTGTTCTTGGGTGCTGACCGTGCACTCCCCGCCGCCGAGGACTTAGAGCTCTGGAAGTAGCTCTCCA
GCTTCCTTCGTACTCGGGGGCCGGACTTGTACACCCGCACGAGGAGCGGGGACGGCGGGCGCAGAAGTGGGCCAC
CATATCTGGAACTACAGTCTATGCTTTGAAGCGCAAAAGGGAATAAACATTTAAAGACTCCCCCGGGGACCTGG
AGG**ATG**GACTTTTCCATGGTGGCCGGAGCAGCAGCTTACAATGAAAAATCAGGTAGGATTACCTCGCTCTCACTC
TTGTTTCAGAAAGTCTTTGCTCAGATCTTTCCCTCAGTGGAGAAAGGGGAATACAGAAGAATGTCTCCCTTACAAG
TGCTCAGAGACTGGTGCTCTTGGAGAAAACATAGTTGGCAAATTTCCCATTAACCACAATGACTTCAAAATTTTA
AAAAATAATGAGCGTCAGCTGTGTGAAGTCTCCAGAATAAGTTTGGCTGTATCTCTACCTGGTCTCTCCAGTT
CAGGAAGGCAACAGCAAACTCTCTGCAAGTGTTTCAGAAAAATGCTGACTCCTAGGATAGAGTTATCAGTCTGGAAA
GATGACCTCACACACATGCTGTTGATGCTGIGGTGAATGCAGCCAATGAAGATCTTCTGCATGGGGGAGGCCTG
GCCCTGGCCCTGGTAAAGCTGGTGGATTGAAATCCAAGAAGAGAGCAACAGTTTGTGGCAGATATGGTAAA
GTGTGAGCTGGTGAGATAGCTGTACGGGAGCAGGGAGGCTTCCCTGCAACAGATCATCCATGCTGTTGGGCCT
CGGTGGATGGAATGGGATAAACAGGGATGTACTGGAAAGCTGCAGAGGGCCATTGTAAGTATTCTGAATTATGTC
ATCTATAAAAAATACTCACATTAAGACAGTAGCAATTCCAGCCTTGAGCTCTGGGATTTTTCAGTTCCCTCTGAAT
TTGTGTACAAAGACTATTGTAGAGACTATCCGGTTAGTTTGCAAGGGAAGCCAATGATGAGTAATTTGAAAGAA
ATTACCTGGTGAGCAATGAGGACCCTACTGTTGCTGCCTTTAAAGCTGCTTCAGAATTCATCCTAGGGAAGAGT
GAGCTGGGACAAGAAACCACCCCTTCTTTCAATGCAATGGTCGTGAACAACCTGACCCTCCAGATTGTCCAGGGC
CACATTGAATGGCAGACGGCAGATGTAATTGTTAATTCTGTAAACCCACATGATATTACAGTTGGACCTGTGGCA
AAGTCAATTCTACAACAAGCAGGAGTTGAAATGAAATCGGAATTTCTTGCCACAAAGGCTAAACAGTTTCAACGG
TCCCAGTTGGTACTGGTCACAAAAGGATTTAACTTGTCTGTAAATATATATACCATGTACTGTGGCATTTCAGAA
TTTCTTAAACCTCAGATATTAAACATGCAATGAAGGAGTGTGTTGAAAAAAGCATTGAGCAAAATATAACTTCC
ATTTCTTTTCTGCCCCTTGGGACTGGAAACATGGAAATAAAGAAGGAAACAGCAGCAGAGATTTTGTGTTGATGAA
GTTTTAACATTTGCCAAAGACCATGTAAAACACCAGTTAACTGTAAAATTTGTGATCTTTCCAACAGATTGAGAG
ATATATAAGGCTTTCAGTTCTGAAATGGCAAAGAGGTCCAAGATGCTGAGTTTGAACAATTACAGTGTCCCCAG
TCAACCAGAGAGGAGAAAAAGAGAAAATGGGCTTGAAGCTAGATCTCCTGCCATCAATCTGATGGGATTCAACGTG
GAAGAGATGTGTGAGGCCACGCATGGATCCAAGAATCCTGAGTCTCCAGAACCACCACATCATTGAGAATAAT
CATATTCTGTACCTTGGGAGAAAGGAACATGACATTTTGTCTCAGCTTCAGAAAACTTCAAGTGTCTCCATCACA
GAAATTATCAGCCCAGGAAGGACAGAGTTAGAGATTGAAGGAGCCCGGGCTGACCTCATTGAGGTGGTTATGAAC
ATTGAAGATATGCTTTGTAAAGTACAGGAGGAAATGGCAAGGAAAAAGGAGCGAGGCCTTTGGCGCTCGTTAGGA
CAGTGGACTATTTCAGCAACAAAAAACCAGACGAAATGAAAGAAAAATATCATATTTCTGAAATGTCTGTGCCT
CCAACCTCAAGAGCTTCTAGATCAAAAGAAACAGTTTGAAAAATGTGGTTTGCAAGTTCTAAAGGTGGAGAAGATA
GACAATGAGGTCCTTATGGCTGCCTTTCAAAGAAAGAAGAAAAATGATGGAAGAAAAAAGTGCACAGGCAACCTGTG
AGCCATAGGCTGTTTCAGCAAGTCCCATACCAGTTCTGCAATGTGGTATGCAGAGTTGGCTTTCAAAGAATGTAC
TCGACACCTTGCGATCCAAAAATACGGAGCTGGCATATACTTCACCAAGAACCTCAAAAACCTGGCAGAGAAGGCC
AAGAAAATCTCTGCTGCAGATAAGCTGATCTATGTGTTTGAAGCTGAAGTACTCACAGGCTTCTTCTGCCAGGGA
CATCCGTTAAATATTGTTCCCCCACCCTGAGTCTGGAGCTATAGATGGTCATGACAGTGTGGTTGACAATGTC
TCCAGCCCTGAAACCTTTGTTATTTTTAGTGGCATGCAGGCTATACCTCAGTATTTGTGGACATGCACCCAGGAA
TATGTACAGTCACAAGATTACTCATCAGGACCAATGAGACCCCTTGCACAGCATCCTTGGAGGGGATTGCAAGT
GGCAGCCCTGTTGAT**TAA**TCTCTACATCATTTTAAACAGCTGGTATGGCCTTACCTTGGGTGAACTAACCAATAA
TGACCATCGATGGCTCAAAGAGTGGCTTGAATATATCCCATGGGTTATCTGTATGGACTGACTGGGTTATTGAAA
GGACTAGCCACATACTAGCATCTTAGTGCCTTTATCTGTCTTTATGTCTTGGGGTGGGGTAGGTAGATACCAAA
TGAAACACTTTTCAGGACCTTCTTCTCTTGCAGTTGTTCTTTAATCTCCTTTACTAGAGGAGATAAATATTTTG
CATATAATGAAGAAATTTTCTAGTATATAACGCAGGCCTTTTATTTTCTAAAATGATGATAGTATAAAAATGTT
AGGATAACAGAATGATTTTAGATTTTCCAGAGAATATTATAAAGTGCTTTAGGTATGAAAAATAATCATCTTTGT
CTGATTAAAAAAAAAAAAA

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FIGURE 1494

MDFSMVAGAAAYNEKSGRITSLSLLFQKVFAQIFPQWRKGNTEECIPYKCSETGALGENYSWQIPINHNDFKILK
NNERQLCEVLQNKFGCISTLVSPVQEGNSKSLQVFRKMLTPRIELSVWKDDLTHAVDAVVNAANEDLLHGGGLA
LALVKAGGFEIQEESKQFVARYGKVSAGEIAVTGAGRLPCKQIIHAVGPRWMEWDKQGCTGKLQRAIVSILNYVI
YKNTHIKTVAIPALSSGIFQFPLNLCTKTIVETIRVSLQGKPMMSNLKEIHLVSNEDPTVAAFKAASEFILGKSE
LGQETTPSFNAMVVNNLTLQIVQGHIEWQTADVIVNSVNPHDITVGPVAKSILQQAGVEMKSEFLATKAKQFORS
QLVLVTKGFNLFCKYIYHVLWHSEFPKPQILKHAMKECLEKCIEQNITSISFPALGTGNMEIKKETAAEILFDEV
LTFAKDHVKHQLTVKFVIFPTDLEIYKAFSSEMAKRSKMLSLNNYSVPQSTREEKRENGLEARSPAINLMGFNVE
EMCEAHAWIQRILSLQNHIIENNHILYLGRKEHDILSQLQKTSSVSITEIISPGRTELEIEGARADLIEVVMNI
EDMLCKVQEEMARKKERGLWRS LGQWTIQQKTQDEMKENIIFLKCPVPPTQELLDQKKQFEKCGLQVLKVEKID
NEVLMAAFQRKKKMMEKLRQPVSHRLFQQVPYQFCNVVCRVGFQRMYSTPCDPKYGAGIYFTKNLKNLAEKAK
KISAADKLIYVFEAEVLTGFFCQGHPLNIVPPPLSPGAIDGHDVVDNVSSPETFVIFSGMQAIPQYLWTCTQEY
VQSQDYSSGPMRPFQAHPWRGFASGSPVD

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FIGURE 1495

CTGACTAACGTGGGCGGAGCTCTAGCTCGCGTATCCTGAGGAGGCGGGGTTGGCCTAGGCGAAGATCCGGACTCT
GGGTGTTTTGCTACCGTGACCGTTTAGAACAGAACTGTTTACTACTTGGTGCGCTGTGGACTCTTGTGATAATTA
ACCAAGAGTAGCTCTATTTGTCCAACCTCACACCTAAAGAAGAAAGAAAATGGCTTGTGCTGAGTTTTCTTTTCA
TGTACCAAGTCTTGAAGAGCTTGCTGGAGTTATGCAGAAGGGGTTAAAAAGATAACTTTGCTGATGTCCAGGTCTC
TGTAAGTTGATTGCCCTGATTTGACTAAGGAACCCCTTTACCTTTCTGTAAAAGGCATCTGTGGGAAAACCTAGAAT
TGCAGAAGTTGGAGGTGTGCCTTACTTATTGCCTCTTGTAACCAAAAAAAGTTTATGATCTGAATAAAATTGC
AAAAGAAATCAAGCTGCCTGGAGCCCTTTATTCTTGAGCAGGAGCAGGTCCATTTTCTGAGCTCTCGGGTTCAATTC
TGAGTTTATGCCAGTTATTAGACAGAAAGTGAACACAAGCCTCCTGTAAATGGAAGTTACTTTTGGCCATGTGAA
CCCTGCAGATGGAGGGTGCCTACTGGAGAAATACAGTGAGAAATGTCATGATTTTCTGAGTGTCATTACTGGCTAA
TCTTTTTGCCAGTGAAGGCCAACCTGGCAAGCCTGCAGAAATTTCTTCTGCCCCCTTGAACCTCTGATGAAGAAGT
GAATAAATGGTTGCATTTTTATGAAATGAAAGCTCCTTTGGTTTGTCTACCAGTTTTTGTCTCCAGAGACCCAGG
GTTTGATTGCGACTGGAGCACACTCATTTTTTTAGTCGTCATGGAGAAGGTGGACACTACCATTATGACACTAC
TCCAGATATAGTGAATAATCTTGATACTTCTTACCTGCAGAGTTTCTCTATCGCATTGATCAACCAAAAGAGAC
GCATTCAATTGGGCGAGATTAATCAGCTGATACTTATTTAGAAAAAGAAATAATTAAGGTTAATTAATTGATTG
ACTTATTAATTAATCTGATATAAAACCAATAGAAATGATCCCACAGGCCAGGCACAATGGCTCATGCCTATAAT
CCCAGCACTTTGGGAGGCTGAGGCAGGAAGCACACTGGAGCCCAGGAGTTTGAGACCAGCTTGGGCAACATAGCA
AGACCCTGTCTATTTTTTTTTAAAAAGTAAAAAATAGAAATTATCTCACTACTTAAATCCCATTTTTTTTCACTTCA
TATGAAAGAACATATTGATAGTATATTCTATATTATTTTATAGATCTGTCTGAAAGAGATTGGGAACAAAAATAT
CTAATTGAGATATTCTTTAATTTTTTACATAGCAGCTTTATTTTTTTTATTCTGTAGTATCAGCGAAATCAGTCA
TGTTTATACCTTGAATATAAATATCAGGAATCATGCAATTATTTCTACTATGTATTTAGTAGTATCTTATATTTG
TATAACATTATTACATTTTGCAAATTAGTATCACAACTGCTAAGTAGATGTTTCTGAGTATTAGAAAAATCAGTG
TTATTACCTGCAGGATATTAAAAAACATTTGAAAAAGAGAAAAAGAAAAATCAGTGTTTAGAAATGTTGATAGTT
ATTGAATCTTTGAATTGAATTTTTAAAAATCCATTCTAGTAATCAGAGTATACTTTTTTTTATAGAACAAGGTGGCA
GGTGGGGAGCCCTTTACCCTTCTGGTGAAGTTAAACCATAGAAGTTTACAATTTGCCTTTTACAAACATTAGCAG
TCCGGGCATGGTGGCTGAAGCCTGTGATCCCAGCATGTTGGGAGGCCGAGTGGGAGGATTGCCTGAGCCTAGGAG
TTTAAACCAGCCTGGGCACCATGGTGAGACCCCATCTCTATTATTTAAATGTTTCTTAAATAAAAAAACACAA
ACATTAGCAACTAGTTGGCTAGCCATAATTCCTCCCTTGTTTCGATTGCCAGTTAGAAGCAATTTTTATTTCACT
GGTTATTTGCAAGAGAAGGGGTAAAAAACAGCATCAGAGTGCAACACTGAAGTGAGCTTACTTTAATTTGTAAG
TGAAGCTGTTGCTGAACGTGACCACTATCGTTGCTGAAATATAAAATTATACTCACTGATTGTAATGGTTGAAAT
TTTCTGAATAATCATTAGCCAAAGATCAACTCTCTAATGGTGCTAATGGCAATCTAGCTAATGTGCAATTTAG
GAAGTCTTCAGTACTAAGTACATAATTTTCAAATAATATTTTTTAATTGTCTACTTTGGATGTTAGCTATGTCTT
GTGAGTATAAATTCCAATTTTAAGCACTATTTTGATGCAAAAAATGAATAAAAAATTTAATTTAAAAA
AAA

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FIGURE 1496

MACAEFSFHVPSLEELAGVMQKGLKDNFADVQVSVDPCDLTKEPFTFPVKGICGKTRIAEVGGVPYLLPLVNQK
KVYDLNKIAKEIKLPGAFILGAGAGPFQTLGFNSEFMPVIQTESEHKPPVNGSYFAHVNPADGGCLLEKYSEKCH
DFQCALLANLFASEGQPGKPAEFSSCPLNSDEEVNKLHFFYEMKAPLVCLPVFVSRDPGFDLRLEHTHFFSRHGE
GGHYHYDTTPDIVEYLGYFLPAEFLYRIDQPKETHSIGRD

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FIGURE 1497

CGGAGCCCCCTCGGCGGCGCCCCGGCCCCAGGACCCGCCTAGGAGCGCAGGAGCCCCAGCGCAGAGACCCCCAACGCCG
AGACCCCCCGCCCCGGCCCCCGCGCTTCCTCCCGACGCAGAGCAAACCGCCCAGAGTAGAAGATGGATTGGGGC
ACGCTGCAGACGATCCTGGGGGGTGTGAACAAACACTCCACCAGCATTGGAAAGATCTGGGCTCACCGTCCTCTTC
ATTTTTCGCATTATGATCCTCGTTGTGGCTGCAAAGGAGGTGTGGGGAGATGAGCAGGCCGACTTTGTCTGCAAC
ACCTTGCAAGCCAGGCTGCAAGAACGTGTGCTACGATCACTACTTCCCCATCTCCACATCCGGCTATGGGGCCCTG
CAGCTGATCTTCGTGTCCACGCCAGCGCTCCTAGTGGCCATGCACGTGGCCTACCGGAGACATGAGAAGAAGAGG
AAGTTCATCAAGGGGGAGATAAAGAGTGAATTTAAGGACATCGAGGAGATCAAAAACCCAGAAGGTCCGCATCGAA
GGCTCCCTGTGGTGGACCTACACAAGCAGCATCTTCTTCCGGGTCACTTCGAAGCCGCCTTCATGTACGTCTTC
TATGTCAGTACGACGGCTTCTCCATGCAGCGGCTGGTGAAGTGCAACGCCTGGCCTTGTCCCAACACTGTGGAC
TGCTTTGTGTCCCGGCCACGGAGAAGACTGTCTTCACAGTGTTTCATGATTGCAGTGTCTGGAATTTGCATCCTG
CTGAATGTCACTGAATTGTGTTATTTGCTAATTAGATATTGTTCTGGGAAGTCAAAAAGCCAGTTTAAACGCATT
GCCCAGTTGTTAGATTAAAGAAATAGACAGCATGAGAGGGATGAGGCAACCCGTGCTCAGCTGTCAAGGCTCAGTC
GCCAGCATTTCCCAACACAAAGATTCTGACCTTAAATGCAACCATTGAAACCCCTGTAGGCCTCAGGTGAAACT
CCAGATGCCACAATGGAGCTCTGCTCCCTAAAGCCTCAAACAAAGGCCTAATTCTATGCCTGTCTTAATTTTC
TTTCACTTAAGTTAGTTCCACTGAGACCCAGGCTGTTAGGGGTTATTGGTGTAAAGGTACTTTTCATATTTTAAAC
AGAGGATATCGGCATTTGTTTCTTTCTCTGAGGACAAGAGAAAAAGCCAGGTCCACAGAGGACACAGAGAAGG
TTTGGGTGTCTCCTGGGGTTCTTTTGCCAACCTTCCCGACGTTAAAGGTGAACATTGGTTCCTTCATTTGCTT
TGGAAGTTTTAATCTCTAACAGTGGACAAAGTTACCAGTGCCTTAAACTCTGTTACACTTTTTGGAAGTGAAAC
TTTGTAGTATGATAGTTATTTTGATGTAAAGATGTTCTGGATACCATTATATGTTCCCCCTGTTTCAGAGGCTC
AGATTGTAATATGTAAATGGTATGTCATTGCTACTATGATTTAATTTGAAATATGGTCTTTTGGTTATGAATAC
TTTGCAGCACAGCTGAGAGGCTGTCTGTTGTATTTCATTGTGGTCATAGCACCTAACACATTGTAGCCTCAATCG
AGTGAGACAGACTAGAAGTTCCTAGTGATGGCTTATGATAGCAAATGGCCTCATGTCAAATATTTAGATGTAATT
TTGTGTAAGAAATACAGACTGGATGTACCACCACTACTACCTGTAATGACAGGCCTGTCCAACACATCTCCCTT
TTCCATGACTGTGGTAGCCAGCATCGGAAAGAACGCTGATTTAAAGAGGTGCGTTGGGAATTTTATTGACACAGT
ACCATTTAATGGGGAGGACAAAATGGGGCAGGGGAGGGAGAAGTTTCTGTCGTTAAAAACAGATTTGGAAAGACT
GGACTCTAAATTCTGTTGATTAAAGATGAGCTTTGTCTACTTCAAAAGTTTGTGTTGCTTACCCCTTCAGCCTCCA
ATTTTTTAAGTGAAAATATACTAATAACATGTGAAAAGAATAGAAGCTAAGGTTTAGATAAATATTGAGCAGAT
CTATAGGAAGATTGAACCTGAATATTGCCATTATGCTTGACATGGTTTCCAAAAAATGGTACTCCACATACTTCA
GTGAGGGTAAGTATTTTCTGTTGTCAAGAATAGCATTGTAAAAGCATTTTGTAAATAATAAGAATAGCTTTAAT
GATATGCTTGTAACATAAATAATTTGTAATGTATCAAATACATTTAAAAACATTAAAAATATAATCTCTATAATAA
AAAAAAAAAAAAA

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FIGURE 1498

MDWGTILQTIILGGVNXHSTSIGKIWLTVLFI FRIMILVVAKEVWGDEQADFVCNTLQPGCKNVCYDHYFPISHIR
LWALQLIFVSTPALLVAMHVAYRRHEKKRKFIKGEIKSEFKDIEEIKTQKVRIEGLWWTYTSSIFFRVIFEAAF
MYVFYVMYDGF SMQRLVKCNAWPCPNTVDCFVSRPTEKTVFTVFMIAVSGICILLNVTELCYLLIRYCSGKSKKP
V

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FIGURE 1499

GGCACGAGGTGGGCGCGGTAGCGAGCGCCAGCGTGTGCGCCCTGGTGGCGGGGGTGGTGCTGGCTCAGTACATAT
TCACCTTGAAGAGGAAGACGGGGCGGAAGACCAAGATCATCGAGATGATGCCAGAATTCAGAAAAGTTCAGTTC
GAATCAAGAACCCTACAAGAGTAGAAGAAATTATCTGTGGTCTTATCAAAGGAGGAGCTGCCAAACTTCAGATAA
TAACGGACTTTGATATGACACTCAGTAGATTTTCATATAAAGGGAAAAGATGCCCAACATGTCATAATATCATTG
ACAACTGTAAGCTGGTTACAGATGAATGTAGAAAAAAGTTATTGCAACTAAAGGAAAAATACTACGCTATTGAAG
TTGATCCTGTTCTTACTGTAGAAGAGAAGTACCCTTATATGGTGGAAATGGTATACTAAATCACATGGTTTGCTTG
TTCAGCAAGCTTTACCAAAAAGCTAAACTTAAAGAAATTGTGGCAGAATCTGACGTTATGCTCAAAGAAGGATATG
AGAATTTCTTTGATAAGCTCCAACAACATAGCATCCCCGTGTTTCATATTTTCGGCTGGAATCGGCGATGTACTAG
AGGAAGTTATTTCGTCAAGCTGGTGTTTATCATCCCAATGTCAAAGTTGTGTCCAATTTTATGGATTTTGATGAAA
CTGGGGTGCTCAAAGGATTTAAAGGAGAACTAATTCATGTATTTAACAAACATGATGGTGCCTTGAGGAATACAG
AATATTTCAATCAACTAAAAGACAATAGTAACATAATTCCTTCTGGGAGACTCCCAAGGAGACTTAAGAATGGCAG
ATGGAGTGGCCAATGTTGAGCACATTCTGAAAATTGGATATCTAAATGATAGAGTGGATGAGCTTTTAGAAAAGT
ACATGGACTCTTATGATATTGTTTTAGTACAAGATGAATCATTAGAAGTAGCCAACCTCTATTTTACAGAAGATTCT
TATTAACAAGCATTCTCCAAGAAGACCTCTCTCCTGTGGGTGCAATTGAACTGTTTCATCCGTTTCATCTTGCTGAG
AGACTTATTTATAATATATCCTTACTCTCGAAGTGTTCCCTTTGTATAACTGAAGTATTTTCAGATATGGTGAAT
GCATTGACTGGAAGCTCCTTTTCTCCACCTCTCTCAACACACTCCTCACCCTATCTTTTAACCCATTTAAAAAAA
AAAATCTTAAAGCCAAAATTAGAAAAATAACTCCCTACTTTTCCAAAGTGAATTTTGTAGTTTAATGTTATCATG
CAGCTTTTGAGGAGTCTTTTACACTGGGAAAGTTTGTAGAAATTTTAAAATAAGTTTATGAAATGGTGAATAA
TATGCATGATTTTAAGTATTGCCATTTTGTAAATTTGGGTTATTATGCTGATGGTATCACCATCTCTTGAAATTG
TGTTAGGTTTGGTTATTTTGTCTGGGGAAAAAATATTTACTGGAAAAGACTAGCAGTTAGTGTGGAAAAACCTG
GTGGTGTTTACAATGTTGCTAATCATTACAAAACATTCTATATTGAAGCACTGATAATAAATATGAAATGCAAAA
AAAAAAAAAAAAAA

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FIGURE 1500

MMPEFQKSSVRIKNPTRVEEIIICGLIKGGAAKLQIITDFDMLSRFSYKGKRCPTCHNIIDNCKLVTDECRKKLL
QLKEKYAIEVDPVLTVEEKYPYMVEWYTKSHGLLVQQALPKAKLKEIVAESDVMLKEGYENFFDKLQQHSIPVF
IFSAGIGDVLEEVIRQAGVYHPNVKVVSNFMDFDETGVKGFKGELIHVFNKHDGALRNTEYFNQLKDNSNIILL
GDSQGDLRMADGVANVEHILKIGYLNDRVDELLEKYMDSYDIVLVQDESLEVANSILQKIL

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FIGURE 1501

GGCACGAGGATACCTCCTCATCAACTCTGACATAGTGTGCGAACAGGACATCTACGAGTGGACTAAGATCAATGG
CCGGCGGGGGGTGCCGCGGGGGGGCGGGCGGCGGAGTAGGTGGCGGGCGGCCATCGCCGAGGCGTCGCCGCAT
CCCGGACGGTACTTCTGCCACTGCTGCTCCGTGGAGATCGTCCCGCGCCTGCCGGATTATATCTGTCCAAGATGC
GAGTCTGGTTTTATCGAGGAGCTTCCGGAAGAGACCAGGAGCACAGAAAATGGTTCTGCCCCCTCCACAGCTCCC
ACAGACCAGAGCCGGCCACCGCTGGAGCACGTGGACCAGCACCTGTTACGCTGCCGCAGGGCTACGGACAGTTT
GCTTTCGGCATCTTCGATGACAGCTTCGAGATCCCCACGTTCCCTCCTGGGGCGCAGGCTGACGACGGCAGGGAC
CCTGAGAGCCGGCGGGAGAGAGACCATCCGTCCCGGCACCGGTACGGCGCCCGACAGCCCCGCGCCCGCCTCACC
ACGCGGGCGGGCCACCGGCCGGCACGAAGGCGTCCCCACGCTGGAAGGGATCATCCAGCAGCTCGTCAACGGCATC
ATCACGCCCCGCCACCATCCCCAGCCTGGGGCCCTGGGGAGTCCTGCACTCAAACCCCTATGGACTACGCCTGGGGG
GCCAACGGCCTGGATGCCATCATCACACAGCTCCTCAATCAGTTTGAAAAACACAGGCCCCCACCGGCAGATAAA
GAGAAAAATCCAGGCCCTCCCCACCGTCCCCGTCACTGAGGAGCACGTAGGCTCCGGGCTCGAGTGCCCTGTGTGC
AAGGACGACTACGCGCTGGGTGAGCGTGTGCGGCAGCTGCCCTGCAACCACCTGTTCCACGACGGCTGCATCGTG
CCCTGGCTGGAGCAGCACGACAGCTGCCCCGTCTGCCGAAAAAGCCTCACGGGACAGAACACGGCCACGAACCCC
CCTGGCCTCACTGGGGTGAGCTTCTCCTCCTCGTCGTCATCGTCTCCTCCAGCTCGCCACGCAACGAGAACGCC
ACAAGCAACTCGTGAGCCCCACGTGCGCCGTGCGGAAAGCACGGGGCCCTTTCCACCCACCCCTCAGCCAGCGCCAC
ACGGCACCCACAGACTGGGTGCCCGGGCGGCCACGCTTGCGCTGGTCAGCGCTGCAGGTCCCGCCTGTTCCAGG
GCAGGACCCGGGCCCCGGCCACC GGCCCCCTGGCTTGGAAGGCGTGGGCCACATGGTCCCCTCTGGGGCGTCCC
CAGCCTCCCCGTCTCTGTCTAACCTCACCTCTAAACGTTTCAGCGGTGGAAGATTTTTATAATTTTAAATTAT
TACTGCTTTGAAATAAACGGACGTTTGAGCTCACGTGGCGGCCATGCATGGTTTGTGGCGGAAGACGGGGCCAG
CGGCTCCCCCAGCGCTGAAGCACGGGGTTTCAGCGGCTCCCCAGTGTGTCAGGTGCCGCCAGGACGGGCCACGTG
GGCCCCAGCCTCCCCCTCGGCCGCCTCCACGACCCGGAGTAGGGGGGCTCGGGACCATGAGGATGACCAGCAAA
ATTCAAGAACAAAACCTGCTCCAACAGACTTTTTTTAAAGGAAAAAATATGTGTATCTTGAAAGCTATTTAAATAC
ACTACTTACAAAGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1502

MAEASPHPGRYFCHCCSVEIVPRLPDYICPRCESGFIEELPEETRSTENGSAFSTAPTDQSRPPLEHVDQHLEFTL
PQGYGQFAFGIFDDSF EIPTFPPGAQADDGRDPESRRERDHP SRHRYGARQPRARLTTRRATGRHEGVPTLEGII
QQLVNGIITPATIPSLGPWGVLHSNPMDYAWGANGLDAIITQLLNQFENTGPPFPADKEKIQALPTVPVTEEHVGS
GLECPVCKDDYALGERVRQLPCNHLFHDGCIVPWLEQHDSCPVCRKSLTGQNTATNPPGLTGVSFSSSSSSSSSS
SPSNENATSNS

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FIGURE 1503

CAGTTTCATTAGGCTCTGAAGCCATTACAAAGGTTGCTTAACCTTCTAATTATTTGATCACTGAGGAAAAATCCAGA
AAGCTACACAACACTGAAGGGGTGAAATAAAAGTCCAGCGATCCAGCGAAAGAAAAGAGAAGTGACAGAAACAAC
TTTACCTGGACTGAAGATAAAAGCACAGACAAGAGAACAATGCCCTGGACATGGCTCCAGAGATCCACATGACAG
GCCCAATGTGCCTCATTGAGAACTAATGGGGAACCTGGTGGCGAATCCAGAAGCTCTGAAAAATCCTGTCTGCCA
TTACACAGCCTGTGGTGGTGGTGGCAATTGTGGGCCTCTACCGCACAGGAAAATCCTACCTGATGAACAAGCTAG
CTGGGAAGAATAAGGGCTTCTCTCTGGGCTCCACAGTGAAATCTCACACCAAAGGAATCTGGATGTGGTGTGTGC
CTCACCCCCAAAAGCCAGAACACACCTTAGTCCTGCTTGACACTGAGGGCCTGGGAGATGTAAAGAAGGGTGACA
ACCAGAATGACTCCTGGATCTTCACCCTGGCCGTCTCTCTGAGCAGCACTCTCGTGTACAATAGCATGGGAACCA
TCAACCAGCAGGCTATGGACCAACTGTACTATGTGACAGAGCTGACACATCGAATCCGATCAAAAATCCTCACCTG
ATGAGAATGAGAATGAGGATTGAGCTGACTTTGTGAGCTTCTTCCAGATTTTGTGTGGACACTGAGAGATTTCT
CCCTGGACTTGGAAGCAGATGGACAACCCCTCACACCAGATGAGTACCTGGAGTATTCCCTGAAGCTAACGCAAG
GTAACAGGAAGCTTGCCAGCTTGAGAACTACAAGATGAAGAGCTGGACCCTGAATTTGTGCAACAAGTAGCAG
ACTTCTGTTCTACATCTTTAGCAATTCCAAAACATAAACTCTTTAGGAGGCATCAAGGTCAATGGGCCCTTGTC
TAGAGAGCCTAGTGCTGACCTATATCAATGCTATCAGCAGAGGGGATCTGCCCTGCATGGAGAACGCAGTCTGG
CCTTGGCCCGAGATAGAGAACTCAGCCGCAGTGCAAAAGGCTATTGCCCACTATGACCAGCAGATGGGCCAGAAGG
TGCAGCTGCCCCGAGAAACCTCCAGGAGCTGCTGGACCTGCACAGGGTTAGTGAGAGGGAGGCCACTGAAGTCT
ATATGAAGAACTCTTTCAAGGATGTGGACCATCTGTTTCAAAGAAATTAGCGGCCAGCTAGACAAAAAGCGGG
ATGACTTTTGTAAACAGAATCAAGAAGCATCATCAGATCGTTGCTCAGCTTTACTTCAGGTCATTTTTCAGTCCTC
TAGAAGAAGAAGTGAAGGCGGGGAATTTATTGCAAAACAGGGGGCTATTGTCTCTTTATTTCAGAAGCTACAAGACC
TGGAGAAAAAGTACTATGAGGAACCAAGGAAGGGGATACAGGCTGAAGAGATTCTGCAGACATACTTGAAATCCA
AGGAGTCTGTGACCGATGCAATTCTACAGACAGACCAGATTCTCACAGAAAAGGAAAAAGGAGATTGAAGTGGAAT
GTGTAAAGCTGAATCTGCACAGGCTTCAGCAAAAATGGTGGAGGAAATGCAAAATAAAGTATCAGCAGATGATGG
AAGAGAAAAGAGAAGAGTTATCAAGAACATGTGAAACAATTGACTGAGAAGATGGAGAGGGGAGAGGGCCAGTTGC
TGGAAAGAGCAAGAGAAAGACCTCACTAGTAACTTCAGGAACAGGCCCGAGTACTAAAGGAGAGATGCCAAGGTG
AAAGTACCCAACCTTCAAAATGAGATACAAAAGCTACAGAAGACCTGAAAAAAAAAACCAGAGATATATGTGCG
ATAAGCTAAAGATCTTAAACAACAGAGCTTTTTCTGTCTATCCTAACCCAAGGCATAACTGAAACAATTTTAGAATTT
GGAACAAGTGTCACTATATTTGATAATAATTAGATCTTGTCATCATAACACTAAAAGTTTACAAGAACATGCAGTT
CAATGATCAAAAATCATGTTTTTTCTTAAAAAGATTGTAAATTGTGCAACAAAGATGCATTTACCTCTGTACCAA
CAGAGGAGGGATCATGAGTTGCCACCCTCAGAAGTTTATTCTTCCAGACGACCAGTGGATACTGAGGAAAGTCT
TAGGTAAAAATCTTGGGACATATTTGGGCACTGGTTTTGGCCAAGTGTACAATAGGTCCCAATATCAGAAACAACC
ATCCTAGCTTCCTAGGGAAGACAGTGTACAGTTCTCCATTATATCAAGGCTACAAGGTCTATGAGCAATAATGTG
ATTTCTGGACATTGCCCATGGATAATTCTCACTGATGGATCTCAAGCTAAAGCAAACCATCTTATACAGAGATCT
AGAATCTTATATTTCCATAGGAAGGTAAAGAAATCATTAGCAAGAGTAGGAATTGAATCATAAACAAATTGGCT
AATGAAGAAATCTTTCTTTCTTGTTCATTCTAGATTATAACCTTAATGTGACACCTGAGACCTTTAGACA
GTTGACCCTGAATTAATAGTCACATGGTAACAATTATGCACTGTGTAATTTTAGTAATGTATAACATGCAATGA
TGCACCTTAACTGAAGATAGAGACTATGTTAGAAAATTGAACTAATTTAATTATTTGATTGTTTTAATCCTAAAG
CATAAGTTAGTCTTTCTTGATTCTTAAAGGTCATACTTGAAATCCTGCCAATTTCCCCAAAGGGAATATGGAA
TTTTTTTGTACTTTCTTTGAGCAATAAAATAATTGTCTTGCCATTACTTAGTATATGTAGACTTCATCCCAATT
GTCAAACATCCTAGGTAAGTGGTTGACATTTCTTACAGCAATTACAGATTATTTTTGAACTAGAAATAAACTAAA
CTAGAAACAAAAAAAAAAAAAAAAAAAA

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FIGURE 1504

MAPEIHMTGPMCLIENTNGELVANPEALKILSAITQPVVVVAIVGLYRTGKSYLMNKLAKGNKGFSLGSTVKSH
KGIWMWCVPHPKKPEHTLVLLDTEGLGDVKKGDNQNDSWIFTLAVLLSSTLVYNSMGTINQQAMDQLYYVTE
RIRSKSSPDENENEDSADFVSFFPDFVWTLRDFSLEADGQPLTPDEYLEYSLKLTQGNRKLAQLEKLQDEELD
PEFVQQVADFCSYIFSNSKTKTLSGGIKVNGPCLESVLTYINAI SRGDLPCMENAVLALAQIENSAAVQKAI
YDQOMGQKVQLPAETLQELLDLHRVSEEREATEVYMKNSFKDVDHLFQKKLAAQLDKKRDDFCQONQEASSDRCSA
LLQVIFSPLEEEVKAGIYSKPGGYCLFIQKLQDLEKKYYEEPRKGIQAEIILQTYLKSKE SVTDAILQTDQILTE
KEKEIEVECVKAESAQASAKMVEEMQIKYQQMMEEKEKSYQEHVKQLTEKMERERAAQLLEEQEKTLT SKLQEQAR
VLKERCQGESTQLQNEIQKLQKTLKKKTKRYMSHKLKI

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FIGURE 1505

ATTGCTGGCCTAGGTGAAACTGACGGTCTCCATTAGAAACATCGCTGCGACCAGTCTAGTGGGTATTTGTAGAAG
AGCCTCAGCGTTCCTGAAGGCAGCTTGTTCCCTAGTAAATCCCAAGGACGCTGCTCACTCGGGTTGCAGGTCTTC
TCTTAGTTTGTTCCTAAGAGTACACCAAATGTGACATCCTTTACCAATATAGATTACTTCATACCACATTGTCT
AAGGAAAGGACTAGAAGAATTTTTTGTGACCCAAAAAACTGGGGGCAAGAAAAAGTAAATCTGGAGCAGCATG
GACCTGTCAGCAACTAAGGAACAAAAGTAATGAAGATTTACACAACTTTGGTATGTCTTACTGAAAGAAAGAAA
CATGCTTCTAACCCTAGAGCAGGAGGCCAAGCGGCAGAGATTGCCAATGCCAAGTCCAGAGCGGTAGATAAGGT
AGTAGATTCCATGGATGCATTAGATAAAGTTGTCCAGGAAAGAGAAGATGCCCTAAGGCTTCTTCAGACTGGTCA
AGAAAGAGCTAGACCTGGTGCTTGGAGAAGAGACATCTTTGGAAGAATCATCTGGCACAAAGTTCAAGCAGTGGGT
TATACCTTGGCACCTAAATAAAAGATACAATAGGAAACGATTCTTTGCCTTGCCTTATGTGGACCATTTTCTCAG
ACTGGAACGTGAGAAACGAGCCCGCATCAAAGCACGGAAGGAAAAATTTAGAGAGAAAAGCAAAAATTCCTTT
AAAAAGTTTCCACATCTTGCTGAAGCCCAAAAGTCAAGTCTTGCTTAAGATGTCTGAACATTAAATTTACCAT
TTTGTTTTTCTTGAATAGTCTGTGTACAGGAGTAAATATGTTAAGTGGTTTATAAAGAAATTCGTTTTTTAGTCA
AGTGACTTTACTAATCAGTTGTTCTAAGTGTGAATATGGCATGCTAATTAGCTAATTTGGTAGAAGCTAATTTGC
TTCTAAAAATCAGGTATAAAGTTCAGATGAGATTCCCACTTTATAAATTCGTGACATTTAAGCAGGCTTTAAATGT
CACTGCTACCTTAGAGTGTGAAGGTGATGGTAACTGCCACAGCAAAGGCAATACCGTAGTTTTTGAATTTGAAT
AATAGTTTTACCTCTGTTGTTAATAGGCTATGAAGAGGATGTGGGTATTGCTGTTAATAAACGGAGGACTTTGAT
TCAAAATAATGAGAAATACATTTAGTCCTTAAAGTAGTAATCACAGTGCACAACAGTCCAAAATATATTTCTGGA
ATGGCTAATTTTTATTTAATTCGTGAAGCCTAAGGTAAAAAGCATAGGCAGTAACTTTACTAGTCAATAAAAAG
CAGTTCTACCAATCCACTGGTAATTAATACACTAAACAGAGTTGGAAAGCATTTTACTGAAAGCAAAATATTTAG
AGAAAATAGACATTTATACAAAATTATAAAATGCTTGTAATAAGAATAAGTGCATTTCAAGGAAAGCACAACTT
AATTTATAGAGCCAGTTAAAGCTTTAAAAAATTTAAGTGGAAATTGAAATATGCAAAAATGTATAAACATTCTAC
AAAAGATGGTCATTCTTTTCTGAGTATACTAAAGCTATGAAACGTAAGGTGACAAAAGGAAGGTAGAAGCTTGG
GAACTCTTTCTCAAGGGCATTCTTTCTTCTACACACTGCTTCCCTCCTTCTTCATATTCTTGCTTGGAAATCCACA
TCCCAACACTTGTGGTGACAACATGACTGACTCCTAACATTGTGTTTCTTGATAACCCCTTCACATTGGAAGGGT
CAAATAATCCTTCTGGAATCTTTAGCCGCTCTGCACCAAAATCACAAATTGTAGCCATTGGGGAATTCATAATGAA
CAGTTGGCATCTGTGCAGCCACTTGTTTCATCATAAGTTGAATCTGACACTTGAAGTACCGAAGCTTGAAAATCCT
GGATAACACAATTACACATATAATTGTGCCAAGACCTCGTAACCTGAGGCAACTTCTCTTTTCTTTTCCAGTTTG
CTGGAGATCCTTCACGAACAGCTTCTTTTGATGCAATCATATATGGAGGAACCAATTCAATATTCATTTCTTGGA
AGAGTTCTCTGCACTGCATAGTAATAAAGTCTCCAGCAAGAGGGGATTTACAATGCCTTGTTGAAGGACATAGC
CATCGTGGACTGGAATTGCAGTGGTATGAGTGGCTCCACTGTCCAAAATCAGCCCAGTAGAACGACCATTAGCAA
ATGCTGTCAAAACTGCAGTTTTGCAAAGGAAGAAGGCAGGGATGTTGTAGTGTTCAAACATTAACCTCTGTCAGTT
TCTCTCTCTTTGCTCTAGTATTCCACGGTGCCTCTGACATGAGAACAGGATGGAGACTGGCTTCTGATTTGACAT
GCATTTTGTAGGTATGATCCAAAATAGCTTGAAACTATCCAGTCTTCAACCATCCCATTTTTTTAGAGGTGAAA
TGGCCTCCATATTCTCCCTCGGAACACGCAGAGCATTAGTATCTATGTAGTAGGTGGGACCGCCTTGTTTGCCTT
TATCGCCATCTATTTCCATTAAATGTGCTTCCGTCTCTCTTTCTACCACCATAACCAATAGCTGTAGGAAAATCCA
CCTTGGGGCAGTCCCTCACCAGCATAACCAGCTCTCACAGTATAGGATCCAATGTCAAAAACAAGGGCTCCAACCTT
CATCTCCCCCGTACCACGCCGCCGCTCATGGCTGCTGCCGGCGGACTCCTACCCTAAGGGCTAACTGGCGAAGT
GACTGCAGTGGCCGCGACTGCGAGTCTCGAGGAGCGATAGCCCCTGACTCCCTTAACTTCCACCGCCACCCACCT
CAGGCAACAAAGCGG

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FIGURE 1506

MAATSLVGICRRASAF LKAACSLVNP KDAAHSGCRSSLSILPKSTPNVTSFHQYRL LHTT LSRKGLEEFFDDPKN
WGQEKVKSGAAWTCQQLRNKSNE DLHKLWYVLLKERNMLLTLEQ EAKRQRLPMPSPERLDKVVD SMDALDKVVQE
REDALRLLQTGQERARPGAWRRDIFGRIIWHKFKQWVIPWHLN KRYNRKREFFALPYVDHFLRLEREKRARIKARK
ENLERKKAKILLKKFPHLAEAQKSSLV

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FIGURE 1507

GTCGGTTCCGGGCGTTACCATCGTCCGTGCGCACCGCCCGGCGTCCAGGTGAGTCTCCCATCTGCAGAGACGCGG
ACGCGCCGGCCCGCAGTTGGCCTGCGGAGCGCGGTGGACGTTTTGGCGCCACCAGGCGATCAATACTTTGGATT
TTTAATTTCTAGATTTGGCAATTCTTCGCTGAAGTCATCATGAGCTTTTTCCAACCTCTGATGAAAAGGAAGGAA
CTCATTCCCTTGGTGGTGTTCATGACTGTGGCGGCGGGTGGAGCCTCATCTTTTCGCTGTGTATTCTCTTTGGAAA
ACCGATGTGATCCTTGATCGAAAAAAAAATCCAGAACCTTGGGAACTGTGGACCCTACTGTACCTCAAAAGCTT
ATAACAATCAACCAACAATGGAAACCCATTGAAGAGTTGCAAAATGTCCAAAGGGTGACCAAAATGACGAGCCCTC
GCCTCTTTCTTCTGAAGAGTACTCTATAAATCTAGTGGAACATTTCTGCACAACTAGATTCTGGACACCAGTG
TGCGGAAATGCTTCTGCTACATTTTTAGGGTTTGTCTACATTTTTTGGGCTCTGGATAAGGAATTAAAGGAGTGC
AGCAATAACTGCACTGTCTAAAAGTTTGTGCTTATTTTCTTGTAATTTGAATATTGCATATTGAAATTTTTGTT
TATGATCTATGAATGTTTTTCTTAAATTTACAAAGCTTTGTAAATTAGATTTTCTTTAATAAAATGCCATTTGT
GCAAGATTTCTCAAAGATTAGGTATATATTTAAATGGAAGAGAAAATATTTTTATGGGAGAAAAATACATTTGAA
CCATGAAATTTTCATCTTTTAAATAACATCCAGTACAGATATCTGTGTAAAAAAAAAAAAA

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FIGURE 1508

MSFFQLLMKRKELIPLVVFMTVAAGGASSFAVYSLWKTDVILDRKKNPEPWETVDPTVPQKLITINQQWKPIEEL
QNVQRVTK

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FIGURE 1509A

ATGCCGGTGCAGCTGACGACAGCCCTGCGTGTGGTGGGCACCAGCCTGTTTGCCCTGGCAGTGCTGGGTGGCATC
CTGGCAGCCTATGTGACGGGCTACCACTTCATCCACACGAAAAGCACTACCTGTCCTTCGGCCGTGTACGGCGCC
ATCCTGGGCTGCACCTGCTCATTAGAGCCTTTTTGCTTCCTGGAGCACC GGCGCATGCCAGCTGCCGGCCAG
GCCCTGAAGCTGCCCTCCCCGCGCGGGGCTCGGTGGCACTGTGCATTGCCGCATACCAGGAGGACCCTGACTAC
TTGCGCAAGTGCCCTGCGCTCGGCCAGCGCATCTCCTTCCTGACCTCAAGGTGGTTCATGGTGGTGGATGGCAAC
CGCCAGGAGGACGCCTACATGCTGGACATCTTCCACGAGGTGCTGGGCGGCACCGAGCAGGCCGGCTTCTTTGTG
TGGCGCAGCAACTTCCATGAGGCAGGCGAGGGTGAGACGGAGGCCAGCCTGCAGGAGGGCATGGACCGTGTGCGG
GATGTGGTGGCGGCCAGCACCTTCTCGTGCATCATGCAGAACTGGGGAGGCAAGCGCGAGGTTCATGTACACGGCC
TTCAAGGCCCTCGGCGATTTCGGTGGACTACATCCAGGTGTGCGACTCTGACACTGTGCTGGATCCAGCCTGCACC
ATCGAGATGCTTCGAGTCTGGAGGAGGATCCCCAAGTAGGGGGAGTCGGGGGAGATGTCCAGATCCTCAACAAG
TACGACTCATGGATTTCCTTCCTGAGCAGCGTGGGTACTGGATGGCCTTCAACGTGGAGCGGGCCTGCCAGTCC
TACTTTGGCTGTGTGAGTGTATTAGTGGGCCCTTGGGCATGTACCGCAACAGCCTCCTCCAGCAGTTCCTGGAG
GACTGGTACCATCAGAAGTTCCTAGGCAGCAAGTGCAGCTTCGGGGATGACCGGCACCTCACCAACCGAGTCCCTG
AGCCTTGGCTACCGAACTAAGTATACCGCGCGCTCCAAGTGCTCAGAGACCCCCACTAAGTACCTCCGGTGG
CTCAACCAGCAAACCCGCTGGAGCAAGTCTTACTTCCGGGAGTGGCTCTACAACCTCTCTGTGGTTCCATAAGCAC
CACCTCTGGATGACCTACGAGTCAGTGGTCACGGGTTTCTTCCCTTCTTCTCATTGCCACGGTTATACAGCTT
TTCTACCGGGGGCCGCATCTGGAACATTCTCCTTCTCTGCTGACGGTGCAGCTGGTGGGCATTATCAAGGCCACC
TACGCTGCTTCTTCCGGGGCAATGCAGAGATGATCTTCATGTCCCTCTACTCCCTCCTCTATATGTCCAGCCTT
CTGCCGGCCAAGATCTTTGCCATTGCTACCATCAACAAATCTGGCTGGGGCACCTCTGGCCGAAAACCATTGTG
GTGAACCTTATTGGCCTCATTCTGTGTCCATCTGGGTGGCAGTTCCTCTGGAGGGGCTGGCCTACACAGCTTAT
TGCCAGGACCTGTTTCAGTGAGACAGAGCTAGCCTTCCTTGTCTCTGGGGCTATACTGTATGGCTGCTACTGGGTG
GCCCTCCTCATGTATATCTGGCCATCATCGCCCGCGATGTGGGAAGAAGCCGGAGCAGTACAGCTTGGCTTTT
GCTGAGGTGTGACCATGGCCCCCAAGCAGAGCGGGTAAAGTGCAATGGGTAAAGGAGGGAAGGGGAATGGAAGAGA
AAAGACAGGGTGGGAGGGAGGAGGGAGTGTGTGTTTTAGTCTCTTAATGGTCCAAAGGACAAATCTAAAATGCA
AAGAACGGTGATGTAGTATGGCCTGACAGCTCTGTTTAGAGGAGGCAACACTGATCCCCCAGATGCAGGGCTGCA
GGGGATTCTGTGTTTTAGACTGCCTGTCTGCTTGCACTGACATAGGCAGTAGCCTCCTCTGGGCTCCAGAG
GGCACTCAGAAGTTGTGCTAAACCAAGTTAAGTCCCATTCAGTGGCAACTTGTGATAGGTACCTGAGTGACGGCA
ACCTGCGGAAGGAGGTTCTCCAGCCCATCTGAACACAACCAGAGGTGGCAGGAGAATTTCTACTGAGCGAGGTG
GGCCGTTTAGTGTATGTACCCCCACCCACCCATAAGTAGTCATCAATGCAATAAGATTGCGCGTGAGATACAA
GGCCCAGAAGCCTGATCTTTGGGCATCAGAAAACAGGGTCCAGGAATGGTGCTTTATGTGAGATACCCCACTCCA
CATCAACATTCCAGGGATGAGCCAAACCAGCAGGGAGTTAGCACTGAACTGCTTTTAAAAGTGCACATTAAAAAG
GAAAGTTTGCCAGGAGGAACAAAGAGATTGTGGTGGTGCTAAAGGAGGCCATAAGCTACACAGAGGCCCTTGGGTG
TTCCACCTGGAACTGCTCAGACGTCTAGATGGGTCTTAGCTTGCTGTGATCTCTGCTGGGGAGATAAAAAGA
TTAAGCCCCAACATGTTTCAAAAAGAAGTGAAGTCTTGGGTATTTTAACTGTATACTCTTGAATTCCTCTCAA
TTCAGCTCTGATCTGAGGCTAAGACACACTCCCCACTTCACTTTCTTCAAAGCCACATTTTTTGAGGTATCACTG
CAGTCACCTCTTCTACCCTCATCATATAGGTAAGGTTTTCAAGGTGGCAATTGGGGCGGAGCCCCGGCTTCTTA
TAGAAGCTTCAGCAGGAGGCAAGCGTGTCTCAGCACATATGGGAACATGAGGAGCCTCTGATCAAATTGGCTA
CAATCTTGGAGCTGCTTGGACGGATTCTTGGCAGCCGGGTTAGCATGTGTGACTTTCAGGCTACTGTTCTTGAC
AATCATCTCCAATGGAAGCTTTTCAGTGTTCCTCAAAGTGAACCTCTCAAATCCAAAATGGTTATCTTTGAGACCA
TCCATTCTCCTCAGTGGCTTCTCCAGGGAATTCTTACAGCCAAGTTGTGACAGTCACTGCATTTGCCTGCTTCTT
TCCAGAAACCAAAGTAGGAGATGAACTGGTTTCTACATCCTAAGGTTCTTGCTTCTCTCATGCCTCCTGAG
GCTGTTTTTGGCTGTTTTCCCTCTGCTGCTTTTTGGGGAATGAGGGGAAGCCATTTTCAAAGTGAAGTGCATCCA
GGCTGTTCTCAGCGTTTTGAGTTTTAAACCTGGGATCCTGACTAAGCCTTTGACTTAAGGTTGCTTGCTTGCCC
TCCAAATGTCCTTTCTCAAAGGGGCCAACTAACCCTGTCAGAACAGCACTAAGGTGGACAGCAGACAAGAGGGC
AAGCCTCTAATGTACCAAGTGCTTCTTACAAAGACGCAAGGTGTGCTCCGAACCACAGATGGGCAAACCTGGTG
CTTTCTTTCATCTCCACGAACTCAAGGGTTTTCCAAGTGTAGCTAACAGTTGCCACATCACACAGACCTCCAGT
TTCTGGTAAGACTGCTGGTTGACATCAGACCCAACCCATTGAAGGCTGGAAGGCAGCAGGCATTGTCTAAGGCAG
CTGATCCAGGCAATCGTTCTGCTGGCCAAGAAGTTAACTATTTTGAGCATTAGAATGGAGGAAATCCGGTCAGC

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FIGURE 1509B

CAAGTGCAGAGTTCAGACTTCGCTAAGGGCTTGTTTTCTTCAGCATTTACTTGAAGATTAATGTAGGATGACAG
GCTCTCCTGGCTGTCCTACCATCAGCTCTGCCTTGCACTGTGGTCGTCAACTTTCCTCAAATCAAAAACAGGCAG
GTACAGGTAGTGGGCTCACAACGTTTGACCTCGACTGGTTTTTCTAAGTTATTTTGTACATTTTTCAGCAGCAA
ACCAAACCTGGGTCTTCAGCTTTATCCCCGTTTCTTGCAAGGGAAGAGCCTTTATACAATTGGACGCATTTTGGTT
TTTCCTCATTGAGAATTCAAATCCTCTTTTGTATTGTTTCTACAATAATTGTAAACATATTTATTTTACCTGC
TTTTTTTTTTTTTTTTTAATTTTCAGGTCAAGTTTTTTATACTGCACTTATTTGTCAAAATAAAGATTCTCACAT

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FIGURE 1510

MPVQLTTALRVVGTSLFALAVLGGILAAAYVTGYQFIHTEKHYLSFGLYGAILGLHLLIQSLFAFLEHRRMRRAGQ
ALKLPSPRRGSVALCIAAYQEDPDYLRKCLRSAQRISFPDLKVVMVVDGNRQEDAYMLDIFHEVLGGTEQAGFFV
WRSNFHEAGEGETEASLQEGMDRVRDVVRASFSCIMQKWGGKREVMYTAFKALGDSVDYIQVCDSDTVLDPACT
IEMLRVLEEDPQVGGVGGDVQILNKYDSWISFLSSVRYWMAFNVERACQSYFGCVQCISGPLGMYRNSLLQQFLE
DWYHQKFLGSKCSFGDDRHLTNRVLSLGYRTKYTARSKCLTETPTKYLRWLNQQTRWSKSYFREWLNSLWFHKK
HLWMTYESVVTGFFPFFLIATVIQLFYRGRIWNILLFLLTVQLVGIIKATYACFLRGNAEMIFMSLYSLLYMSSL
LPAKIFAIATINKSGWGTSGRKTIVVNF IGLIPVSIWVAVLLEGLAYTAYCQDLFSETELAFVSGAILYGCYWV
ALLMLYLAI IARRCGKKPEQYSLAF AEV

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FIGURE 1512

MTEQETLALLEVKRSDSPEKSSPQALVPNGRQPEGEGGAESPGAESLRVGSSAGSPTAIEGAEDGLDSTVSEAA
LPWGTGPQPSAFFDPPGWRDIEPEPPESEPLTKLEELPEDDANLLPEKAARAFVPIDLQCIERQPQEDLIVRCE
AGEGECRTFMPPRVTHPDPTERKWAEAVVRPPGCSCGGCGSCGDREWLRAVASVGAALILFPCLLYGAYAFLEFD
VPRLPTMSSRLIYTLRCGVFATFP IVLGILVYGLSLLCF SALRPFGEPRREVEIHRRYVAQSVQLF ILYFFNLAV
LSTYLPQDTLKLLPLLTLGLFAVSRLIYWLTFAVGRSFRGFGYGLTFLPLL SMLMWNLYYMFVVEPERMLTATESR
LDYPDHARSASDYRPRPWG

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FIGURE 1513

CACTTGACCTTCCATCAGTAAGACGGACTTTTCTAATCTGTTCCCTGGAGATATTAATGGAATACAGTCATGTCCA
CTCAAGACGAGAGGCAGATCAATACTGAATATGCTGTGTCATTGTTGGAACAGTTGAAACTGTTTTATGAACAGC
AGTTGTTTTACTGACATAGTGTTAATTGTTGAGGGCACTGAATTCCTTGTCTATAAGATGGTTCTTGCAACATGTA
GCTCTTATTTTCAGGGCCATGTTTTATGAGTGGACTAAGTGAAAGCAAACAAACCCATGTACACCTGAGGAATGTCG
ATGCTGCCACCTTACAGATAATAATAACTTATGCATACACGGGTAACTTGGCAATGAATGACAGCACTGTAGAAC
AGCTTTATGAAACAGCTTGCTTCCTACAGGTAGAAGATGTGTTACAACGTTGTCGAGAATATTTAATTAAAAAAA
TAAATGCAGAGAATTGTGTACGATTGTTGAGTTTTGCTGATCTCTTCAGTTGTGAGGAATTTAAACAGAGTGCTA
AAAGAATGGTGGAGCACAAGTTCAGTCTGTGTATCATCAGGTCGCGTTCATGCAGCTGTACATGACCTCCTCA
TAGACATCTTCAGCAGCGACAACCTTAAATGTAGAAAAGGAGGAAACCGTTCGAGAAGCTGCTATGCTGTGGCTAG
AGTATAACACAGAATCACGATCCCAGTATTTGTCTTCTGTTCTTAGCCAAATCAGAATTGATGCACTTTCAGAAG
TAACACAGAGAGCTTGTTTTCAAGGTCTGCCACCCAATGATAAGTCAGTGGTGGTTCAAGGTCTGTATAAGTCCA
TGCCCAAGTTTTTCAAACCAAGACTTGGGATGACTAAAGAGGAAATGATGATTTTCATTGAAGCATCTTCAGAAA
ATCCTTGTAGTCTTTACTCTTCTGTCTGTTACAGCCCCCAAGCAGAAAAAGTTTACAAGTTATGTAGCCCCACCAG
CTGATTTGCATAAGGTTGGGACCGTTGTAACCTCCTGATAATGATATCTACATAGCAGGGGGTCAAGTTCCTCTGG
AAAAACACAAAAACAAATCACAGTAAACAAGCAAACCTTCAGACTGCCTTCAGAACTGTGAATTGCTTTTATTGG
TTTGATGCACAGCAAAATACCTGGTTTCCAAAGACCCCAATGCTTTTTGTCCGCATAAAGCCATCTTTGGTTTG

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FIGURE 1514

MSTQDERQINTEYAVSLLEQLKLFYEQQLFTDIVLIVEGTEFPCHKMVLATCSSYFRAMFMSGLSSESKQTHVHLR
NVDAATLQIIITYAYTGNLAMNDSTVEQLYETACFLQVEDVLQRCREYLIKKINAENCVRLLSFADLFSCEELKQ
SAKRMVEHKFTAVYHQVAFMQLSHDLLIDIFSSDNLNVEKEETVREAAMLWLEYNTESRSQYLSSVLSQIRIDAL
SEVTQRAWFQGLPPNDKSVVVQGLYKSMPEFFKPRLGMTKEEMMIFIEASSENPCSLYSSVCYSPQAEKVYKLCS
PPADLHKVGTVVTPDNDIYIAGGQVPLEKHKNKSQ

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FIGURE 1515

GGCCCATGCAAGTCCAAAATTGAGCAGGGCAGTCAAATTTTAAACCTCCAAAATGATCACCTTTGACTCCACGTC
TCACAATCATCTCTCTCAAGTTCGAAGTTCCACAAATCTCTAAGGCAAGGGAAGATGCTGCCAGTCTCTTTGCT
AAAACACAGCAAGAGTCACCTTTACTCCAGTTCACAAAAAGTTTTTCATCTCCATCTGAGACCACCTCAGCCTGA
ATTTTATTGTCAATATTGCTATCAGCATTGTTGGGCAAGCCATTGAGCAAGTATCTAGGAAGTTCCAAACTTTCC
CACATTTTCCTGTCTTCTTCTGAGCCCTTCAAACCTGTTCCAACTCTGCCTGTTACCCAGTTCCAACTTGCTTT
CATATTTTTGGCTATCTTTTCAGCAATGCCCACTCTACTGTTAGCAGTTTACTGTATTAGTCTGTTTTACACT
GCTGATAAAGACATTCTCAAGATTGTGAAGAAAAAGAGTTTAATTGGACTTACAGTTCCACATGGCCGGGGAG
GCCTCAGAAATCATGGCGGGAGGTGAAAAGCACTTCGTACATGGTGGTGGCAAGAGAAAATGAAGAAGAAGCAAAA
GTGGAAACCCCTGATAAACCCTATCAGATCTCATGAGACTTACTATCATGAGAATAGCACAGGAAAGACTGGCCCC
CCTGATTGATGACCTCCCCCTGGGTCCCTCCCACAACATGTGGGAATTCAGAAAGATAAATTCAAGTTGCAATT
TCAGTGGGGACATAGCCAAACCAGGCGCCAGGTAGCTCCTGCCCTTAGCCCAGGAGGCCATCCCTGCAGCGGGGC
CACGGGCATCGGAAAAGCCATCGTGAAGGAGCTCCTGGAGCTGGGGAGTAATGTGGTCATTGCATCCCGTAAGTT
GGAGAGATTGAAGTCTGCGGCAGATGAAGTGCAGGCCAACCTACCTCCCACAAAGCAGGCACGAGTCATTCCCAT
ACAATGCAACATCCGGAATGAGGAGGAGGTGAATAATTTGGTCAAATCTACCTTAGATACTTTTGGTAAGATCAA
TTTCTTGGTGAACAATGGAGGAGGCCAGTTTCTTTCCCTGCTGAACACATCAGTTCTAAGGGATGGCACGCTGT
GCTTGAGACCAACCTGACGGGTACCTTCTACATGTGCAAAGCAGTTGACCAGCTAATCTGGCTTCTGTGTCTTTT
TGAAATGGCTCAGACCTGTTTCTCAAGAAGACCTAGTTCCCTTTAGTAGTTTACAGCTCCTGGATGAAGAGCA
TGGAGGATCTATCGTCAATATCATTGTCCCTACTAAAGCTGGATTTCCATTAGCTGTGCATTCTGGAGCTGCAAG
AGCAGGTGTTTACAACCTCACCAATCTTTAGCTTTGGAATGGGCCTGCAGTGAATACGGATCAATTGTGTTGC
CCCTGGAGTTATTTATTTCCAGACTGCTGTGGAGAACTATGTTTCTGGGGACAAAGCTTCTTTGAAGGGTCTTT
TCAGAAAATCCCCGCTAAACGAATTGGTGTTCCTGAGGAGGTCTCCTCTGTGGTCTGCTTCCTACTGTCTCCTGC
AGCTTCCTTCATCACTGGACAGTCGGTGGATGTGGATGGGGCCGGAGTCTCTATACTCACTCGTATGAGGTACC
AGATCATGACAACCTGGCCCAAGGGAGCAGGGGACCTTTCTGTTGTCAAAAAGATGAAGGAGACCTTTAAGGAGAA
AGCTAAGCTCTGAGCTGAGGAAACAAGGTGTCCTCCATCCCCAGTGCCTTCACATCTTGAGGATATGCTTCTGT
ACTTTTTAAAAGCTTATAGTTGGTATGGAAAACATTTTTCTTATTTTTAAGTGTTATTAATTATATCTATGGAAA
AACTATTCCTGAAATATATACAGTCTTATGTCCCAATCAGAGTCTTTTAACTATGATTTAAAAATGTATAAGTA
ACAGAAATTAACATATTTAATGACTTTACTTTTTATTTCTAAGAAAAGTATTTGAAAAATGGAATAATTTTAAA
TCAATGATAATTCTAGGGATCATGAAGTCCCAGAAGATTTTATTATTTAATTGTAAAGGTAGAGGCCAGACGCAG
TGGCTCACGCCTGTAATTCCAGCACTTTGGGAGGCCGAGGTAGGCGGGTCAGTTGAGGTCAGGAGTTCAAGACCA
GGCTGGCCAAACATGGTAAAACCTGTCTCTACTGAAAAACAACAAAAACAAAAACACAAATTAGTCGGGTGTGGT
GGCACACACCTGTAGTCCCAGGTACTTGGGAGGCTGAGGCAGGAGGATCGCTTGAACCCAGGAAGCAGAGGTTGC
AGTGAGCTGAGATCATGCTACTGCAGTCCAGCCTGGGCTACAGAGTGAGACTGCATCTCAAAAAAACCCAAAAA
ACAAAAACAAACAACAACAATAAAGGTAGAAAATAAACCTAAATTGTGTCGTAATTAAAGATTATTAA
AATTAGAATTATACAATGACTTATTTTTGGTGGCAAATACTTTAGGAGCAATAATGCCTTATGGTAATTATTGAT
GTATAGTTTCTTTTGTATGAAGTCAAATTTGTATAAATTCTCTTAATTCAAAGAAAAAGTTTTATGTGATTTA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1516

MKEHGGSIIVNIIVPTKAGFPLAVHSGAARAGVYNLTSLALEWACSGIRINCVAPGVIYSQTAVENYGSWGQSFF
EGSFQKIPAKRIGVP EEVSSVVCFLLSPAASFITGQSVDVDGGRSLYTHSYEVPDHDNWPKGAGDLSVVKKMKET
FKEKAKL

TATAGTAGTGGGTTAAACGGCCCGCCCGGGTAGTCGGAAGTGAAGTGGCAGACGGTCCGAAGCGGGGGCCCA
CGTCAGCGGGGCCACCCAGGGCTCGCGGGGTCCCGTGGGTGCCATGCGGAGGGGCGCGCTTCTGGCGGGCGCCT
TGGCCGCGTACGCCGCGTACCTGGTGCTGGGCGCGCTGTTGGTGGCGCGGCTGGAGGGGCCGACGAAAGCCAGGC
TCCGAGCCGAGCTGGAGACGCTGCGGGCGCAGCTGCTTCAGCGCAGCCCGTGTGTGGCTGCCCCCGCCCTGGACG
CCTTCGTGGAGCGAGTGCTGGCGGCCGACGGCTGGGGCGGGTCTGTGCTTGCTAACGCTTCGGGGTCCGCCAACG
CCTCGGACCCCGCTGGGACTTCGCCTCTGCTCTCTTCTTCGCCAGCAGCTGATCACCACCGTGGGCTATGGGT
ACACAACGCCACTGACTGATGCGGGCAAGGCCCTTCTCCATCGCCTTTGCGCTCCTGGGCGTGCCGACCACCATG
TGCTGCTGACCGCTCAGCCAGCGCCTGTCACTGCTGCTGACTCACGTGCCCTGTCTTGGCTGAGCATGCGTT
GGGGCTGGGACCCCCGGCGGGCGGCCCTGCTGGCACTTGGTGGCCCTGTTGGGGGTCGTAGTGACCGTCTGCTTTC
TGGTGGCGGCTGTGATCTTTGCCACCTCGAGGAGGCCGAGGCTTCTTGGATGCCCTTCTACTTCTGCTTTATCT
CTCTGTCCACCATCGGCCCTGGGCGACTACGTGCCCGGGGAGGCCCTGGCCAGCCCTACCGGGCCCTCTACAAG
TGCTGGTCACAGTCTACCTCTTCTGGGCTGGTGGCCATGGTGCTGGTGCTGCAGACCTTCCGCCACGTGTCCG
ACCTCCACGGCTCAGCGAGCTCATCTGCTGCCCCCTCCGTGCCCTGCCAGTTTCAATGCGGATGAGGACGATC
GGGTGGACATCCTGGGCCCCCAGCCGGAGTCGCACCAGCAACTCTCTGCCAGCTCCACACCGACTACGCTTCCA
TCCCCAGGTAGCTGGGGCAGCCTCTGCCAGGCTTGGGTGTGCCCTGGCCTGGGACTGAGGGGTCCAGGCGACCAGA
GCTGGCTGTACAGGAATGTCCACGAGCACAGCAGGTGATCTTGAGGCCTTGCCGTCCACCGTCTCTCCTTTGTTT
CCCAGCATCTGGCTGGGATGTGAAGGGCAGCACTCCCTGTCCCATGTCCCGGGCTCCACTGGGCACCAACATAA
CCTTGTTCTCTGTCTCTTCTCTCATCTCTTTACACTGTGTCTCTCTGGCTCTCTGGCATCTCTGCTGCCTCTGT
CTTTCCCTCTTGCTGTCTCTGTTTCTATTCTCTTTCAITGTTCCGTCTGTGTCTCTCAATTAACCACTCGTCAAC
TGCTGATTCTACTGGGCTGTGGGCTCAGACCTCATTTCAGGCACCAGATTGGTCGCTACACCCTGGACAAGTGAC
TGCCCGTCTCTGAGCCTTGATTTCCTCAGCTGCCAAATGGGAAGAATAGAAGAATTTGCCCCATAACCCCTCCTG
TGTGCTGGCCCTGTGCTAGACAGTGCTGGAGACATAGTTGGGGGTGGAGAAGTGCCTTATGGAGCTTGCACTCC
AGTGAGGTGGACAGACCTGTCCCGAGACAGTGATGGCCCAAATGGTCAGGACTTTAATGGAGGAGGTGAGGTGT
TGAAAGCACAGGCAGAGTGGTCAGGGCTGAAGTCGGAGAAGCATAGGGACTAGGCCCAATCCAGCCTGGAAAGTC
AGGGAGGACTTCTTAGAGGAAGGGACATCGAACTAAGACCTGAACATATGAGAAATAGGCAGGAAGAAGTTGTACC
TGACTCATTTTTCTCAGGTGTCTCCAGGGAGCAGGACCCATGGAGGGACCCCTGGTGTAGCCTGGGCGATAGACT
CTTTCTCACAGCCTGGCAGGCAGGAAACAGACATAGGACCCACCCAGATCTGAATGGCATGGGAGGTCTGCC
TTAACCCATGGCACCATTTGTAAGAGCTGTCCACATTTGTATGTTGTGCCCTGGAATCAGCCTGGTTTAGCTCAA
TCCCCAAATTAGCCACGCTCTGGCCTGTGTCTTGGGCAGTCACACTACCTCTCTGATTTTGTTCCTTATCTGT
AAAATGGTGATCATCATAATACTTCAAAGGATTTAGGCTGAGTGTGGTGGCTCACGCCTATACCCAGC
ACTTTGGAAGGCTGAGGAAGGAGGATCGCTTGAGGCCAGGAGTTTGAGACTAGCCTAGGCAACACAGTGAGGCCT
TATCTCAACAACAACCACAAAATCTAAAAATTAGCTGGGTGTGGTGGTGCATGCCTGTGATCCTGGCTACTTCAG
AGGCTGAGGTGGAAGGATCACTTGAGGCCAGGAGTTTGAGGCTGCAGTGAGTTATGATGGCACTGCTGCACTCCA
GCCTGCGGGACAGAGTGAGACCTGTCTGAAAGAAAGAGAGAAAGAAAGAAAGAGAGAGAGAGAAAGAAAGAAAG
AAAGAAAGGGAAAGATGGAAGGAAGGAAGGAAAAAGAAAGAGAAAGAGAGAGAGAGAGAAAGAAAAAGAAAGAA
AGTAAGAAAAA

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FIGURE 1518

MRRGALLAGALAAYAAYLVLGALLVARLEGPHEARLRAELETTLRAQLLQSPCVAAPALDAFVERVLAAGRLGRV
VLANASGSANASDPAWDFASALFFASTLITTVGYGYTTPLTDAGKAFSIAFALLGVPTTMLLLTASAQRLSLLLT
HVPLSWLSMRWGWDPRRAACWHLVALLGVVTVCFVPAVIFAHLEEAWSFLDAFYFCFISLSTIGLDYVPGEA
PGQPYRALYKVLVTVYLFGLVAMVLVLQTFRHVSDLHGLTELILLPPPCPASFNADDDRVDILGPQPEHQQL
SASSHTDYASIPR

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FIGURE 1519

CCGTAGTCAACGTGCGCCTCCCCTCCCGGCTCCCAGCCGGGCGCGCCCCGGGCTCGAGTCTCTGCCTGCCCAGTG
GCAGCCCCGCCCTTCCTCTCCCAAGTGGGCCCCCGGCGCCAGCTCCGCGTCCTGTGAGGTCCAGTGGCCGCCAG
GCGCGACCAGATCTGGGTGCGCGGAGAGCGCGCCATGGCGGCTGTGGGACCGCGGACCGGCCCCGGAACCGGCGCC
GAGGCTCTAGCGCTGGCGGCAGAGCTGCAGGGCGAGGCGACGTGCTCCATCTGCCTAGAGCTCTTTTCGTGAGCCG
GTGTCCGTGAGTGCGGCCACAGCTTCTGCCGCGCCTGCATAGGGCGCTGCTGGGAGCGCCCGGGCGCGGGGTCT
GTTGGGGCCGCCACCCGCGCGCCCCCTTCCCCTGCCCCTGTCCGAGTGCCGCGAGCCCGCGCGCCCCAGTCAG
CTGCGGCCCAACCGGCAGCTGGCGGCAGTGGCCACGCTCCTGCGGCGCTTCAGCCTGCCCCGGGCTGCCCCGGGA
GAGCACGGGTCTCAGGCGGCCGCGGCCCGGGCAGCGGCTGCCGCTGCGGGCAGCATGGCGAACCTTCAAGCTC
TACTGCCAGGACGACGGACGCGCCATCTGCGTGGTGTGCGACCGCGCCCGCGAGCACCGCGAGCACGCCGTGCTG
CCGCTGGACGAGGCGGTGCAGGAGGCCAAGGAGCTCTTGGAGTCCAGGCTGAGGGTCTTGAAGAAGGAAGTGGAG
GACTGTGAGGTGTTCCGGTCCACGGAAAAAGAAGGAGAGCAAGGAGCTGCTGGTGAGCCAGGCACCCGCAGGCCCC
CCGTGGGACATTACAGAGGCCTGAGAAGTCTCAGCACCGGGCTCGGTGTGTGTGGTGTGGAGTGTGTGCTATGGA
ACCGCAGAATCGATTTAGAAAGATAATAGAGTCCATATTATATAGGGTGTCCACATAATTGTTGTACAAACCAG
AGCTTTTTAAAGTGAAAAGCAGTGCTAAAATAATTATTGCAAAACAAGTGGCTTAAAGTGGAGCTGTCCAGCGA
ATCAGGACGCTCAGTCACTCTGATATTACGTAACATAACAGTTAGGGCCTGCGGAAGCATCTTGTAATGGAACAC
ATTACTATTTCTGCAGAGAAACATGGATATTCAATAAGTGGGAATATTAATAACAATAAAGAGCCTCATGGCATGT
TTTGTCACAAAACAGTAGTTGAAAAAAA

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FIGURE 1520

MAAVGPRTGPGTGAEALALAAELQGEATCSICLELFREPVSVECGHSFCRACIGRCWERPGAGSVGAATRAPPFP
LPCPQCREPARPSQLRPNRQLAAVATLLRRFSLPAAAPGEHGSQAAAAARAAAARCGQHGEPPFKLYCQDDGRAICV
VCDRAREHREHAVLPLDEAVQEAKELLESRLRVLKKELDCEVFRSTEEKESKELLVSQAPAGPPWDITEA

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FIGURE 1521

CGAGCTGCCCCGGGGTCTCTCTGGTTTCCTAATCAGGGCAACGCCGCGGGAGAGAACCTTTACCTTGGCTGCACT
AAGTTCTCGGTGCCACTCCCTGGCAGGGCGGGACCTTGTTTAGGCCCTGTGATCGCGCGGTTTCGTAGTAGCGCAA
GGCGCAGAGTGGACCTTGACCCGCCCTAGGGCGGGAAGAGTTTGGCCCGCGGGTCCCAAAGGGCAGAATGGACGG
GCTCCTAAATCCCAGGGAATCCTCTAAATTCATTGCAGAAAACAGTCGGGATGTGTTTATTGACAGCGGAGGCGT
ACGGAGGGTGGCAGAGCTGCTGCTGGCCAAGGCGGCGGGGCCAGAGCTGCGCGTGGAGGGGTGGAAAGCCCTTCA
TGAGCTGAACCCAGGGCGGCCGACGAGGCCGCGGTCAACTGGGTGTTTCGTGACAGACACGCTCAACTTCTCCTT
TTGGTTCGGAGCAGGACGAGCACAAGTGTGTGGTGTAGGTACAGAGGGGAAAACATACAGTGGGTACTGGTCCCTGTG
CGCCGCCGTCAACAGAGCCCTCGACGAAGGGATACCAATAACTAGTGCCTTCGTACTACGCGACAGTGACCCTGGA
TCAGGTTTCGGAATATACTTCGTTCTGACACAGACGTTTCCATGCCTTTAGTAGAAGAGAGGGCATCGGATTCTCAA
TGAAACCGGGAAAAATTCGTCTGGAGAAGTTTGGAGGCTCTTTTCTCAACTGCGTCCGAGAAAGTGAGAATAGTGC
GCAGAAGTTAATGCACCTGGTGGTTGAAAGTTTTCTTCTTACAGAGATGTGACTCTGTTTGAGGGGAAAAGAGT
TTCTTTTTTACAAACGAGCCCAAATCCTTGTAGCAGATACGTGGAGTGTATTGGAAGGAAAAGGAGATGGCTGCTT
CAAGGACATCTCCAGTATCACCATGTTTGCTGATTATAGATTACCTCAGGTTCTTGCTCATCTTGAGGCCCTGAA
ATACTCTGATGACCTACTGAAGAAGCTTCTCAAAGGAGAAATGCTCTCATATGGAGACAGGCAAGAGGTGGAAAT
CAGAGGGTGCTCGCTTTGGTGTGTTGAGCTGATCCGGGATTGTCTTCTGGAGCTTATTGAACAAAAGGGTGAAAA
ACCTAATGGAGAGATCAATTCCATTCTTCTGGATTATTACTTATGGGACTATGCCCATGACCATAGGGAAGATAT
GAAAGGAATTCGTTTCATCGCATACGTTGCATATATTATTGACCTCAAGTGTAACCTGATCCAAAGAAAACCCC
CTGCGTTTTATATCATATCATCTGTACAGTTTTGCTTTGATATTTAGAGAACATGATCGAGGTTATAGGAAATTG
ATTGCCCATCTCACTTGAAAAATACTTCCTAGGCCGGGCACAGTGGTTTATGCCTGTAATCCCAGCACTGTGGG
AGGCTGAGGCGGGTGGATCATCTGAGGTGAGGAGTTTGAGACCACCTGGCCAACATGGTGAAACCCCATCTCTAC
TAAAAATACAAAATTAGCTGGGCGTGGTGGCACGTGCCTGTAATCCCAGTTACTTGGGAGGCTGAGGCAAGAGAA
TCGCTTGAATCAGAAGGTGGAGGTTGCAGTGAGGCGAGATTAGGCCATTGCACTCCAGCCTCAGCAACAAGAGT
GAAACTTTGTCTCAAAAAACAACAACAACAACAACAACAACAACAACTTCCTAGGCCAGATGTGGTGGCTCAT
ATGTATAATCTTAGCACTTTGGGAGGCCAAGGCAGGAGGATTGCTTGAGGCGAGGAGTTCAAGACCAGCCTAGGC
AACATAGGGAGACCCCATCTCTACAAAAATTTAAAAATTAGCCTAGCATGGTGGCACGCTCTGTAATCCCAAT
ACGCGGTAGGCTGAGGCTGAGGAGGGTGGATTGCTTGAGCCAGGGGTTTGAGGCTGCAGTGAGCCACAGTCACG
CCACTGCATTCTATCCTGGGCAACAGATGGAGACCTTGTCTCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1522

MHLVVEFSPSYRDVTLFEGKRVSFYKRAQILVADTWSVLEGKGDGCFKDISSITMFADYRLPQVLAHLGALKYSD
DLLKKLLKGEMLSYGDRQEVEIRGCSLWCVELIRDCLLELIEQKGEKPNGEINSILLDYWLWDYAHDHREDMKGI
PFHRIRCIYY

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FIGURE 1523

AAAAACAAGCTCAGCGATGCGCGGCTCCAGAAGGCAGCGGTCTAGGCGAGGACGCCCGGCTGGACCAGGAGACCGC
CCAGTGGCTGCGCTGGGACAAGAATTCCTTAACTTTGGAGGCAGTGAAACGACTAATAGCAGAAGGTAATAAAGA
AGAACTACGAAAATGTTTTGGGGCCCGAATGGAGTTTGGGACAGCTGGCCTCCGAGCTGCTATGGGACCTGGAAT
TTCTCGTATGAATGACTTGACCATCATCCAGACTACACAGGGATTTTGCAGATACCTGGAAAAACAATTCAGTGA
CTTAAAGCAGAAAGGCATCGTGATCAGTTTTGACGCCCCGAGCTCATCCATCCAGTGGGGGTAGCAGCAGAAGGTT
TGCCCGACTTGCTGCAACCACATTTATCAGTCAGGGGATTCTGTGTACCTCTTTTCTGATATAACGCCAACCCC
CTTTGTGCCCTTACAGTATCACATTTGAAACTTTGTGCTGGAATCATGGTAACTGCATCTCACAATCCAAAGCA
GGATAATGGTTATAAGGTCTATTGGGATAATGGAGCTCAGATCATTTCTCCTCACGATAAAGGGATTTCTCAAGC
TATTGAAGAAAATCTAGAACCGTGGCCTCAAGCTTGGGACGATTCTTTAATTGATAGCAGTCCACTTCTCCACAA
TCCGAGTGCTTCCATCAATAATGACTACTTTGAAGACCTTAAAAAGTACTGTTTCCACAGGAGCGTGAACAGGGA
GACAAAGGTGAAGTTTGTGCACACCTCTGTCCATGGGGTGGGTCATAGCTTTGTGCAGTCAGCTTTCAAGGCTTT
TGACCTTGTTCTCTCTGAGGCTGTTCTCTGAACAGAAAGATCCGGATCCTGAGTTTCCAACAGTGAAATACCCGAA
TCCCGAAGAGGGGAAAGGTGTCTTGACTTTGTCTTTTGCTTTGGCTGACAAAACCAAGGCCAGAATTGTTTTAGC
TAACGACCCGGATGCTGATAGACTTGCTGTGGCAGAAAAGCAAGACAGTGGTGAATGGAGGGTGTTCAGGCAA
TGAGTTGGGGGCCCTCCTGGGCTGGTGGCTTTTTACATCTTGGAAGAGAAGAACCAGGATCGCAGTGCTCTCAA
AGACACGTACATGTTGTCCAGCACCGTCTCCTCCAAAATCTTGCGGGCCATTGCCTTAAAGGAAGGTTTTCATTT
TGAGGAAACATTAACTGGCTTTAAGTGGATGGGAAACAGAGCCAAACAGCTAATAGACCAGGGGAAAACCTGTTTT
ATTTGCATTTGAAGAAGCTATTGGATACATGTGCTGCCCTTTTGTCTGGACAAAGATGGAGTCAGTGCCGCTGT
CATAAGTGCAGAGTTGGCTAGCTTCCTAGCAACCAAGAATTTGTCTTTGTCTCAGCAACTAAAGGCCATTTATGT
GGAGTATGGCTACCATATTACTAAAGCTTCCTATTTTATCTGCCATGATCAAGAAACCATTAAGAAATTATTTGA
AAACCTCAGAACTACGATGGAAAAATAATTATCCAAAAGCTTGTGGCAAATTTGAAATTTCTGCCATTAGGGA
CCTTACAACCTGGCTATGATGATAGCCAACCTGATAAAAAAGCTGTTCTTCCCCTAGTAAAAGCAGCCAAATGAT
CACCTTCACCTTTGCTAATGGAGGCGTGGCCACCATGCGCACCAAGTGGGACAGAGCCCAAAATCAAGTACTATGC
AGAGCTGTGTGCCCCACCTGGGAACAGTGATCCTGAGCAGCTGAAGAAGGAAGTGAATGAAGTGGTCAGTGCTAT
TGAAGAACATTTTTTCCAGCCACAGAAGTACAATCTGCAGCCAAAAGCAGACTAAATAGTCCAGCCTTGGGTAT
ACTTGCAATTTACCTACAATTAAGCTGGGTTTAACTTGTTAAGCAATATTTTTAAGGGCCAAATGATTCAAAACAT
CACAGGTATTTATGTGTTTTACAAAGACCTACATTCCTCATTGTTTCATGTTTGACCTTTAAGGTGAAAAAGAA
AATGGCCAAACCCAAACAACTAACATTCCTACTAAAAAGTTGAGCTTGGACATATTTGAATTTTGTAAAGTGAA
GATTTTTAACTGACTAACTTAAAAAATAGATTGTAATTGATGTGCCTTAATTTGCATAAATCATAAATGTATG
TCCTCTCTGTAATTGTTTTAATGTGTGCTTGAAATATCCAGAAAACCTATGGAGTTAGTAAATTCTGGGCTGTCA
TATGTAGGATAGCCACTTTTTAGGTATATGTACATTTATATTTCTATCAATTCTTAGAAAGTAAAATAAATGAA
TAGATC

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FIGURE 1524

MAAPEGSGLGEDARLDQETAQWLRWDKNSLTLEAVKRLIAEGNKEELRKCFGARMEFGTAGLRAAMGPGISRMND
LTIIQTTQGFCRYLEKQFSDLKQKGIVISFDARAHPSGGSSRRFARLAATTFFISQGIPVYLFSDITPTFPVPFT
VSHLKL CAGIMVTASHNPKQDNGYKVYWDNGAQIISPDKGISQAIEENLEPWPQAWDDSLIDSSPLLHNPSASI
NNDYFEDLKKYCFHRSVNRETKVKFVHTSVHGVGHSFVQSAFKAFDLVPPEAVPEQKDPDPEFFTVKYPNPEEGK
GVLTL SFALADKTKARIVLANDPDADRLAVAEKQDSGEWRVFSGNELGALLGWLFTSWKEKNQDRSALKD TYML
SSTVSSKILRAIALKEGFHFEETLTGFKWMGNRAKQLIDQGKTVLFAFEEAIGYMCCPFVLDKDGVSAAVISAEL
ASFLATKNLSLSQQLKAIYVEYGYHITKASYFICHQETIKKLFENLRNYDGKNYPKACGKFEISAIRDLTTGY
DDSQPDKKAVLPTSKSSQMITFTFANGGVATMRTSGTEPKIKYYAELCAPPGNSDPEQLKKELNELVSAIEEHFF
QPQKYNLQPKAD

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FIGURE 1525

AGGAAGCTGCATGCATGAGACCCACAGACTCTTGCAAGCTGGATGCCCTCTGTGGATGAAAGATGTATCATGGAA
TGAACCCGAGCAATGGAGATGGATTTCTAGAGCAGCAGCAGCAGCAGCAGCAACCTCAGTCCCCCAGAGACTCT
TGGCCGTGATCCTGTGGTTTCAGCTGGCGCTGTGCTTCGGCCCTGCACAGCTCACGGGCGGGTTCGATGACCTTC
AAGTGTGTGCTGACCCCGGCATTCCCGAGAATGGCTTCAGGACCCCGAGCGAGGGGTTTCTTTGAAGGCTCTG
TAGCCCGATTTCAGTGCCAAGACGGATTCAAGCTGAAGGGCGCTACAAAGAGACTGTGTTTGAAGCATTTTAATG
GAACCCTAGGCTGGATCCCAAGTGATAATTCCATCTGTGTGCAAGAAGATTGCCGTATCCCTCAAATCGAAGATG
CTGAGATTCAACAAGACATATAGACATGGAGAGAAGCTAATCATCACTTGTTCATGAAGGATTCAAGATCCGGT
ACCCCGACCTACACAATATGGTTTCATTATGTGCGCATGATGGAACGTGGAATAATCTGCCCATCTGTCAAGGCT
GCCTGAGACCTCTAGCCCCCAGCATACCCCGGCTCAGGGGACACGGACACAGGCCCAGGGGAGTCAGAAACCTG
TGACAGCGTCTCAGGCTCTTCTGAGCTGCTCCAAAGTCTGTATTACCTCCAGGTGCCAAGAGAGCACCACCC
TGCTTCGGACAACCCGTGACATAATTGCCAGCACGGCAGAGGAGGTGGCATCCACCAGCCCAGGCATCGACATTGC
AGATGAGATTCTCTAATGGAAGAAGATCCCTAATATGGGTCAAGATCCAGATGACTCTCCTGCTCCTTCGGGGA
AAGGACCTTGTATCTTGGAGTGAGGTACAGAAGGATAGAGCCTGGGGGCAAAATGTCTAACTTGTCTACATGGG
GACCACAGTTCACATTATGCATCTCAGGCTCCACAGTGAGGCTGACAACTGCAATGGCAGTGCTTTTAAATGAG
ATTTGAGGATTCACCAAGACCCATGGGGAACCGGGGCAGCAGGGAAGCCCTCGCGTGGTCTTGGATGAGGGGTGT
TAAATGTGTATCGTGTGTGGAACATGGGACAATTCCACGCACATCCCACCGAATCATCACGCATCCCATTGACT
GGCAAGTACTCCCGCCCCCTCTGAAAGCATGTACATCATGTAAATTTGCTTCTAACATCTGCTTCAAACCTGTC
TCTGGACTCCAAATTTGGATGGGTGAGCCTCTGCAGAAAGTTTGTGTTGAGATGCTGGAAGAACAGCAGAGCCTC
CTGCACCCTCAGCAAGGGACCAGCTCCCAAGGAAAGGTCTTGTGTGACATTGGAGAATCTTCCTTCATCCAG
ACAACCTCTACTCGAAGCAAGACGAAAGCAGGATGTGGCAGTTGCAGTGAGAAAGGAAAGGAAAGGTGGGCAGACT
CTGCTTTCTGGAATTTCTTCACAAAGTAGAGCTCATGAACCTCTGTGCTGTCTTCTGGTAACATATCATCAGTGT
TTGTATTTCATGGTGTGGCACATGGATCCATGGCATTGGGTAAATCTGGTGGTTTTTACACATGGTCAGAATGTGT
TCAAATACATCTCATGATGGAGACAGTAACCAAGGTAATGTTTTGTTTCAGCATTTTAAAAAGACTCCACTTAAC
ATTTATCTCAGAATCATGAGCCTCTCTCTAGTTGACAATTGTCATTGTTCCCCCAGCCCCAAATTGAACCATACA
TTTATTTTCCAAAACAGAAATTGTTTCTGTAAACATATCCGACCTTCAAAAGAAGTGTGAGGTTGGATTTTCCC
CCTTTTATTTGTCCTAAGATTCCAGGAGGCTGGCCTCCCAGCCCAGATAGCTCAGCCACCTCACCTGCCTATCAT
TCCTGCATTCTTACTTTGAGGGTCTCATCATGCCCACTGGGTGTTGTTCTTAAGAACTGATTGATTAAAAAATT
TCCCAAAGTG

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FIGURE 1526

MYHGMNPSNGDGFLEQQQQQQQPQSPQRLLAVILWFQIALCFGPAQLTGGFDDLQVCADPGIPENGFRTPSGGVF
FEGSVAREFHCQDGFKLKGATKRLCLKHFNGTLGWIPSDNSICVQEDCRIPQIEDAEIHNKTYRHGEKLIITCHEG
FKIRYPDLHNMVSLCRDDGTWNNLPICQGCLRPLAPQHTPAQGTRTQAQGSQKPVTASQALLSCSKVCIHLPGAK
RAPTLRLTTLT

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FIGURE 1527

CCCTTTAAAGGGTGACTCGTCCCACTTGTGTTCTCTCTCCTGGTGCAGAGTTGCAAGCAAGTTTATCAGAGTATC
GCCATGAAGTTTCGTCCCCTGCCTCCTGCTGGTGACCTTGTCTGCCTGGGGACTTTGGGTCAGGCCCCGAGGCAA
AAGCAAGGAAGCACTGGGGAGGAATTCCATTTCCAGACTGGAGGGAGAGATTCTGCACTATGCGTCCCAGCAGC
TTGGGGCAAGGTGCTGGAGAAGTCTGGCTTCGCGTCGACTGCCGCAACACAGACCAGACCTACTGGTGTGAGTAC
AGGGGGCAGCCCAGCATGTGCCAGGCTTTTGCTGCTGACCCCAAACCTTACTGGAATCAAGCCCTGCAGGAGCTG
AGGCGCCTTCACCATGCGTGCCAGGGGGCCCCGGTGCTTAGGCCATCCGTGTGCAGGGAGGCTGGACCCCAGGCC
CATATGCAGCAGGTGACTTCCAGCCTCAAGGGCAGCCCAGAGCCCAACCAGCAGCCTGAGGCTGGGACGCCATCT
CTGAGGCCCCAAGGCCACAGTGAAGTCAACAGAAGCAACACAGCTGGGAAAAGGACTCGATGGAAGAGCTGGGAAAA
GCCAAACCCACCACCCGACCCACAGCCAAACCTACCCAGCCTGGACCCAGGCCCGGAGGGAATGAGGAAGCAAAG
AAGAAGGCCTGGGAACATTGTTGGAACCCCTTCAGGCCCTGTGCGCCTTTCTCATCAGCTTCTTCCGAGGGTGA

CAGGTGAAAGACCCCTACAGATCTGACCTCTCCCTGACAGACAACCATCTCTTTTTATATTATGCCGCTTTCAAT
CCAACGTTCTCACACTGGAAGAAGAGAGTTTTCTAATCAGATGCAACGGCCCCAAATTCTTGATCTGCAGCTTCTCT
GAAGTTTGAAAAGAAACCTTCCTTTCTGGAGTTTGCAGAGTTCAGCAATATGATAGGGAACAGGTGCTGATGGG
CCCAAGAGTGACAAGCATAACAACCTACTTATTATCTGTAGAAGTTTTGCTTTGTTGATCTGAGCCTTCTATGAA
AGTTTAAATATGTAACGCATTCATGAATTTCCAGTGTTTCAGTAAATAGCAGCTATGTGTGTGCAAAATAAAAGAA
TGATTCAGAAAT

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FIGURE 1528

MKFVPCLLLVTLSCLGTLGQAPRQKQGSTGEEFHFQTGGRDSCTMRPSSLGQGAGEVWLRVDCRNTDQTYWCEYR
GQPSMCQAFADPKFYWNQALQELRRLHHACQGAPVLRPSVCREAGPQAHMQQVTSSLKGSPEPNQQPEAGTPSL
RPKATVKLTEATQLGKDSMEELGKAKPTTRPTAKPTQPGPRPGGNEEAKKKAWHCWKPFQALCAFLISFFRG

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FIGURE 1529

GGGAAAAATGCTCTTTTGGGTGCTAGGCCTCCTAATCCTCTGTGGTTTTCTGTGGACTCGTAAAGGAAAACTAAA
GATTGAAGACATCACTGATAAGTACATTTTTATCACTGGATGTGACTCGGGCTTTGGAACTTGGCAGCCAGAAC
TTTTGATAAAAAGGGATTTTCATGTAATCGCTGCCTGTCTGACTGAATCAGGATCAACAGCTTTAAAGGCAGAAAC
CTCAGAGAGACTTCGTACTGTGCTTCTGGATGTGACCGACCCAGAGAATGTCAAGAGGACTGCCCAGTGGGTGAA
GAACCAAGTTGGGGAGAAAGGTCTCTGGGGTCTGATCAATAATGCTGGTGTTCCTGGCGTGTCTGGCTCCCACTGA
CTGGCTGACACTAGAGGACTACAGAGAACCTATTGAAGTGAACCTGTTTGGACTCATCAGTGTGACACTAAACAT
GCTTCCTCGACCTCAAGAGGATCAGCCTGGCCAGGGTGGCACAACCTCTTCCTTCCCCGTGCACAGCAGGAAAGCT
GCCATCAGTTGGAGGGGGCTATACTCCATCCAAATATGCAGTGGAAGGTTTCAATGACAGCTTAAGACGGGACAT
GAAAGCTTTTTGGTGTGCACGTCTCATGCATTGAACCAGGATTGTTCAAAACAAACTTGGCAGATCCAGTAAAGGT
AATTGAAAAAACTCGCCATTTGGGAGCAGCTGTCTCCAGACATCAAACAACAATATGGAGAAGGTTACATTGA
AAAAAGTCTAGACAACTGAAAGGCAATAAATCCTATGTGAACATGGACCTCTCTCCGGTGGTAGAGTGCATGGA
CCACGCTCTAACAAGTCTCTTCCCTAAGACTCATTATGCCGCTGGAAAAGATGCCAAAATTTTCTGGATACCTCT
GTCTCACATGCCAGCAGCTTTGCAAGACTTTTTATTGTTGAAACAGAAAGCAGAGCTGGCTAATCCCAAGGCAGT
GTGACTCAGCTAACCACAAATGTCTCCTCCAGGCTATGAAATTGGCCGATTTCAAGAACACATCTCCTTTTCAAC
CCCATTCTTATCTGCTCCAACCTGGACTCATTAGATCGTGCTTATTTGGATTGCAAAGGGAGTCCCACCATC
GCTGGTGGTATCCAGGGTCCCTGCTCAAGTTTTCTTTGAAAAGGAGGGCTGGAATGGTACATCACATAGGCAAG
TCCTGCCCTGTATTTAGGCTTTGCCTGCTTGGTGTGATGTAAGGGAAATTGAAAGACTTGCCCATTTCAAATGAT
CTTTACCGTGGCCTGCCCCATGCTTATGGTCCCCAGCATTTACAGTAACTTGTGAATGTTAAGTATCATCTCTTA
TCTAAATATTAAAAGATAAGTCAAACATTAAAAA

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FIGURE 1530

MLFWVLGLLILCGFLWTRKGLKIEDITDKYIFITGCDSGFGNLAARTFDKKGFHVIAACLTESGSTALKAETSE
RLRTVLLDVTDPENVKRTAQWVKNOVGKGLWGLINNAGVPGVLAPTDWLTLEDYREPIEVNLFGLISVTLNMLP
RPQEDQPGQGGTTLPSPCTAGKLPSVGGGYTPSKYAVEGFNDSLRRDMKAFGVHVSCIEPGLFKTNLADPVKVIE
KKLAIWEQLSPDIKQQYGEGYIEKSLDKLKGNKSYVNMDLSPVVECMDHALTSLFPKTHYAAGKDAKIFWIPLSH
MPAALQDFLLLKQKAELANPKAV

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FIGURE 1531

CCCGACCCGTGCGAGGGCCAGGTCCGCGCCTGCCCCGCCAGGCGAAGCGAGGCGACCCGCGTGCGGGCCATGGCCTT
CGCTGCTGGGAGCCTACCCTTGGCCCGAGGGTCTCGAGTGCCCGGCCCTGGACGCCGAGCTGTTCGGATGGACAAT
CGCCGCGGGCCGTCCCCGGCCCCCGGGGGACAAGGGCTCCGAGAGCCGTATCCGGCGGGCCCATGAACGCCTTCA
TGGTTTGGGCCAAGGACGAGAGGAAACGGCTGGCAGTGCAGAACCCGGACCTGCACAACGCCGAGCTCAGCAAGA
TGCTGGGAAAGTCGTGGAAGGCGCTGACGCTGTCCCAGAAGAGGCCGTACGTGGACGAGGCGGAGCGGGCTGCGCC
TGCAGCACATGCAGGACTACCCCAACTAÇAAGTACCGGCCGCGCAGGAAGAAGCAGGCCAAGCGGCTGTGCAAGC
GCGTGGACCCGGGCTTCCTTCTGAGCTCCCTCTCCCGGGACCAGAACGCCCTGCCGGAGAAGAGAAGCGGCAGCC
GGGGGGCGCTGGGGGAGAAGGAGGACAGGGGTGAGTACTCCCCGGCACTGCCCTGCCAGCCTCCGGGGCTGCT
ACCACGAGGGGCGGGCTGGTGGTGGCGGGCGGCACCCCGAGCAGTGTGGACACGTACCCGTACGGGGCTGCCCCA
CACCTCCTGAAATGTCTCCCTTGGACGTGCTGGAGCCGGAGCAGACCTTCTTCTCCTCCCCCTGCCAGGAGGAGC
ATGGCCATCCCCGCCGCATCCCCACCTGCCAGGGCACCCGTACTACCCGGAGTACGCCCCAAGCCCTCTCCACT
GTAGCCACCCCTGGGCTCCCTTGGCCCTTGGCCAGTCCCCCGGCGTCTCCATGATGTCCCCTGTACCCGGCTGTCTC
CCCCATCTCCTGCCTATTACTCCCCGGCCACCTACCACCCACTCCACTCCAACCTCCAAGCCACCTGGGCCAGC
TTTCCCCGCCTCCTGAGCACCTTGGCTTCGACGCCCTGGATCAACTGAGCCAGGTGGAACCTCTGGGGGACATGG
ATCGCAATGAATTCGACCAGTATTTGAACACTCCTGGCCACCCAGACTCCGCCACAGGGGGCCATGGCCCTCAGTG
GGCATGTTCCGGTCTCCAGGTGACACCAACGGGTCCACACAGAGACCAGCCTCATCTCCGTCTGGCTGATGCCA
CGGCCACGTACTACAACAGCTACAGTGTGTCATAGAGCTGGAGGCGCCCCGTCCGGTCAGCCCTCGCGCCCTCTC
CTTCTTGTGCCTTGAGTGGCAGAGGAGCCGTCCAGCCACACCAGCTTTCCTCCACCGCTCAGGGCAGGGAGGTC
TGAAGTGCGGCCCCAGAGCCTTTGGCCTAAGCTGGACTCTCCTTATCCGAGTGCCGCCTCTATCCCCTTCCCCAC
GTTCCAGCCCCTGCAGCCACATTTTAAGTATATTCTTCAAGTGAGTTTTCTCCAGCCCCTGAGAGTTGCTGT
CTCCAGTGGAATGTTCACTGACGTCTTTTCTTGGTAGCCATCATCGAACTAATGGGGGGACAGACTTGATAGC
CAAGGTCCCTTCTGGTCCAGTTTTCTGATTTAGGGTCTCTCAAGATTAATAAAGGAAGATGGGGAAATTTGACT
CATTAATGAGCTCGCTAACCTACGATCTGGTGATAATTTGTGTGCACAGCCCAAGGACCACGAGGCTTTCTGCA
CTTTCTGCACCCCTTCCAAAGTGACCACAAAATTTCAAAGGGACTCATACAATTTGAGAAAAAACAGTCAACCT
GATTTGAGAAATTAACCAGTATGGCTAACTATATCACAGAAAATGGGATTGAGTTAAACTATTTTATTTTAAAT
ATACATTTTAAAGCAGTTCTTTTTTTTTTGTTAATTTGTTTATTATACACACACTTCAAGAGCCACCGCGCCCAGC
CTACATTTATAATTTTCATTCTCTTTTACCTATAAAATTCAGTGTATTAGTTTCATTACATAGGAGAAATTATAT
TTCTAAACATTTTATGATGTTTAAAAACAAAACAGGCTGTTGTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1532

MASLLGAYPWEGLECPALDAELSDGQSPPAVPRPPGDKGSESRIRRPMNAFMVWAKDERKRLAVQNPD LHNAEL
SKMLGKSWKALTLSQKRPYVDEAERLRLQHMQDYPNYKYRPRRKKQAKRLCKRVDPGFLLSSLSRDQNALPEKRS
GSRGALGEKEDRGEYSPGTALPSLRGCYHEGPAGGGGGGTPSSVDITYPYGLPTPEMSPLDVLEPEQTFFSSPCQ
EEHGHPRRIPHLPGHPYSPEYAP SPLHCSHPLGSLALGQSPGVSMSPVPGCPPSPAYYSPATYHPLHSNLQAH
GQLSPPPEHPGFDALDQLSQVELLGDMDRNEFDQYLNTPGHPDSATGAMALSGHVPVSQVTPTGPTETSLISVLA
DATATYYNSYSVS

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FIGURE 1533

CACTCCGGAGACTCGCGGTTGCTACGGCACCATGGCTGGAGAGGTACTTCTCAGCCCTCTAGCTCCAACTGAGAA
CCCAGCCAGTCAGGAAGTCGCTACTTCGGGAACACCAACCAATCAGGGCGGCTGGCTCTCAGTCCCCTCGCTGTG
GTCGCGGACTGTGTCTGTTCCAGGAGTCCTTCGGCGGCTGTTGTGTCTAGTGGCCTGATCGCGATGGGGACAAAG
GCGCAAGTCGAGAGGAAACTGTTGTGCCTCTTCATATTGGCGATCCTGTTGTGCTCCCTGGCATTGGGCAGTGTT
ACAGTGCACCTCTTCTGAACCTGAAGTCAGAATTCTGAGAATAATCCTGTGAAGTTGTCCTGTGCCTACTCGGGC
TTTTCTTCTCCCCGTGTGGAGTGGGAAGTTTGACCAAGGAGACACCACCAGACTCGTTTGCTATAATAACAAGATC
ACAGCTTCCTATGAGGACCGGGTGACCTTCTTGCCAACTGGTATCACCTTCAAGTCCGTGACACGGGAAGACACT
GGGACATACACTTGTATGGTCTCTGAGGAAGGCGGCAACAGCTATGGGGAGGTCAAGGTCAAGCTCATCGTGCTT
GTGCCTCCATCCAAGCCTACAGTTAACATCCCCCTCCTCTGCCACCATTGGGAACCGGGCAGTGCTGACATGCTCA
GAACAAGATGGTTCCCCACCTTCTGAATACACCTGGTTCAAAGATGGGATAGTGATGCCTACGAATCCCAAAAGC
ACCCGTGCCCTTCAGCAACTCTTCCTATGTCTGAATCCCACAACAGGAGAGCTGGTCTTTGATCCCCTGTCTAGCC
TCTGATACTGGAGAATACAGCTGTGAGGCACGGAATGGGTATGGGACACCCATGACTTCAAATGCTGTGCGCATG
GAAGCTGTGGAGCGGAATGTGGGGGTCTCGTGGCAGCCGTCCTTGTAACCCTGATTCTCCTGGGAATCTTGGTT
TTTGGCATCTGGTTTGCCTATAGCCGAGGCCACTTTGACAGAAACAAAGAAAGGGACTTCGAGTAAGAAGGTGATT
TACAGCCAGCCTAGTGCCCGAAGTGAAGGAGAATTCAAAACAGACCTCGTCATTCTGGTGAGCCTGGTCTGGCT
CACCGCCTATCATCTGCATTTGCCTTACTCAGGTGCTACCGGACTCTGGCCCCCTGATGTCTGTAGTTTACAGGA
TGCCTTATTTGTCTTCTACACCCACAGGGCCCCCTACTTCTTCGGATGTGTTTTTAATAATGTCAGCTATGTGC
CCCATCTCTCTCATGCCCTCCCTCCCTTTTCTTACCCTGCTGAGTGGCCTGGAACCTTGTTTTAAAGTGTATTTC
CCCATTCTTTGAGGGATCAGGAAGGAATCCTGGGTATGCCATTGACTTCCCTTCTAAGTAGACAGCAAAAATGG
CGGGGGTTCGAGGAATCTGCACTCAACTGCCCACCTGGCTGGCAGGGATCTTTGAATAGGTATCTTGAGCTTGGT
TCTGGGCTCTTTCTTGTGTACTGACGACCAGGGCCAGCTGTTCTAGAGCGGGAATTAGAGGCTAGAGCGGCTGA
AATGGTTGTTTGGTGATGACACTGGGGTCCTTCCATCTCTGGGGCCACTCTCTTCTGTCTTCCCATGGGAAGTG
CCACTGGGATCCCTCTGCCCTGTCTCTGAATACAAGCTGACTGACATTGACTGTGTCTGTGGAATAATGGGAGC
TCTTGTGTGGAGAGCATAGTAAATTTTTCAGAGAACTTGAAGCCAAAAGGATTTAAAACCGCTGCTCTAAAGAAA
AGAAAACCTGGAGGCTGGGCGCATGGCTTCACGCCTATAATCCCAGAGGCTGAGGCAGGCGGGATCACCTGAGGTC
AGGAGTTCAAGATCAGCCTGACCAACATGGAGAAAACCTACTAAAAATACAAAGTTAGCCAGGCATGGTGGTGCA
TGCCTGTAATCCCAGCTGCTTCAGGAGCCTGGCAACAAGAGCAAACTTCCAGTTCAAAAAAATGXAGAAAAGAA
ATTTTGGGGGGGAACAAGAAAGCTGGAGCTGGTGGCTTAGGCCATCACCTTCCCTTGGCTGGAACCTACTGGACA
GACCTTTTGTAGATGTGCCTGTGGTGTGTGGAGATGTGTGTAGTGGTCTTAGCTCTTTGTTGAGCTTGTGTGTG
TGTTGTGTAGTC

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FIGURE 1534

MGTKAQVERKLLCLFILAILLCSLALGSVTVHSSEPEVRIPENNPVKLSCAYSGFSSPRVEWKFDQGD TTRLVCY
NNKITASYEDRVTF LPTGITFKSVTREDTGTYTCMVSEEGGNSYGEVKVKLIVLVPPSKPTVNIPSSATIGNRAV
LTCSEQDGSPPSEYTWFKDGIVMPTNPKSTRAFSNSSYVLNPTTGELVFDPLSASDTGEYSCEARNGYGTPMTSN
AVRMEAVERNVGVIVA AVLTLILLGILVFGIWFAYSRGHFDRTKKGTSSKKVIYSQPSARSEGEFKQTSSFLV

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FIGURE 1535

TCGAGGTCGACATTTATACCGTCTGAGGGTAGCAGCTCGAAAGTAGAAGAAAGTGTGTCAGGGACGGCAGTATC
TCTTTGTGTGACCCTGGCGGCTTATGGGACGTTGGCTTCAGACCTTTGTGATACACC**ATG**CTGCGTGGGACGATG
ACGGCGTGGAGAGGAATGAGGCCTGAGGTCACACTGGCTTGCCCTCCTAGCCACAGCAGGCTGCTTTGCTGAC
TTGAACGAGGTCCCTCAGGTCACCGTCCAGCCTGCGTCCACCGTCCAGAAGCCCGGAGGCACTGTGATCTTGGGC
TGCGTGGTGGAACTCCAAGGATGAATGTAACCTGGCGCCTGAATGGAAAGGAGCTGAATGGCTCGGATGATGCT
CTGGGTGTCTCATCACCCACGGGACCCTCGTCATCACTGCCCTTAACAACCACACTGTGGGACGGTACCAGTGT
GTGGCCCGGATGCCGTGCGGGGGCTGTGGCCAGCGTGCCAGCCACTGTGACACTAGCCAATCTCCAGGACTTCAAG
TTAGATGTGCAGCAGTGATTGAAGTGGATGAGGGAAACACAGCAGTCATTGCCGTGCCACCTGCCTGAGAGCCAC
CCCAAAGCCAGGTCCGGTACAGCGTCAAACAAGAGTGGCTGGAGGCCTCCAGAGGTAACCTGATCATGCCC
TCAGGGAACCTCCAGATTGTGAATGCCAGCCAGGAGGACGAGGGCATGTACAAGTGTGCAGCCTACAACCCAGTG
ACCCAGGAAGTGAAAACCTCCGGCTCCAGCGACAGGCTACGTGTGCGCCGCTCCACCGCTGAGGCTGCCCGCATC
ATCTACCCCCCAGAGGCCCAAACCATCATCGTCACCAAAGGCCAGAGTCTCATTCTGGAGTGTGTGGCCAGTGGA
ATCCCACCCCCACGGGTACCTGGGCCAAGGATGGGTCCAGTGTACCGGCTACAACAAGACGCGCTTCCTGCTG
AGCAACCTCCTCATCGACACCACCAGCGAGGAGGACTCAGGCACCTACCGCTGCATGGCCGACAATGGGGTTGGG
CAGCCCGGGGCAGCGGTTCATCCTCTACAATGTCCAGGTGTTTGAACCCCTGAGGTCACCATGGAGCTATCCAG
CTGGTCATCCCCTGGGGCCAGAGTGCCAAGCTTACCTGTGAGGTGCGTGGGAACCCCGCCCTCCGTGCTGTGG
CTGAGGAATGCTGTGCCCTCATCTCCAGCCAGCGCCTCCGGCTCTCCCGCAGGGCCCTGCGCGTGTCTCAGCATG
GGGCTTGAGGACGAAGGCGTCTACCAGTGCATGGCCGAGAACGAGGTTGGGAGCGCCCATGCCGTAGTCCAGCTG
CGGACCTCCAGGCCAAGCATAACCCCAAGGCTATGGCAGGATGCTGAGCTGGCTACTGGCACACCTCCTGTATCA
CCCTCCAAACTCGGCAACCCTGAGCAGATGCTGAGGGGGCAACCGGCGCTCCCCAGACCCCAACGTCAGTGGGG
CCTGCTTCCCGCAGTGTCCAGGAGAGAAGGGGCAGGGGGCTCCCGCCGAGGCTCCCATCATCTCAGCTCGCCC
CGCACCTCCAAGACAGACTCATATGAACTGGTGTGGCGGCTCGGCATGAGGGCAGTGGCCGGGCGCCAATCCTC
TACTATGTGGTGAACACCGCAAGGTCACAAATTCCTCTGACGATTGGACCATCTCTGGCATTCCAGCCAACCAG
CACCGCTGACCCTCACCAGACTTGACCCCGGAGCTTGTATGAAGTGGAGATGGCAGCTTACAACGTGTGCGGGA
GAGGGCCAGACAGCCATGGTCACCTTCCGAACCTGGACGGCGGCCCAAACCCGAGATCATGGCCAGCAAAGAGCAG
CAGATCCAGAGAGACGACCCTGGAGCCAGTCCCCAGAGCAGCAGCCAGCCAGACCACGGCCGCTCTCCCCCCA
GAAGCTCCCGACAGGCCCACCATCTCCACGGCCTCCGAGACCTCAGTGTACGTGACCTGGATTCCCCGTGGGAAT
GGTGGGTTCCTAATCCAGTCTTCCGTGTGGAGTACAAGAAGCTAAAGAAAGTGGGAGACTGGATTCTGGCCACC
AGCGCCATCCCCCATCGCGGCTGTCCGTGGAGATCACGGGCTAGAGAAAGGCACCTCCTACAAGTTTCGAGTC
CGGGCTCTGAACATGCTGGGGGAGAGCGAGCCAGCGCCCCCTCTCGGCCCTACGTGGTGTGCGGGCTACAGCGGT
CGCGTGTACGAGAGGCGCGTGGCAGGTCTTATATCACCTTCACGGATGCGGTCAATGAGACCACCATCATGCTC
AAGTGGATGTACATCCCAGCAAGTAACAACAACACCCCAATCCATGGCTTTTATATCTATTATCGACCCACAGAC
AGTGACAATGATAGTGACTACAAGAAGGATATGGTGAAGGGGACAAGTACTGGCACTCCATCAGCCACCTGCAG
CCAGAGACCTCCTACGACATTAAGATGCAGTGCTTCAATGAAGGAGGGGAGAGCGAGTTCAGCAACGTGATGATC
TGTGAGACCAAAGCTCGGAAGTCTTCTGGCCAGCCTGGTTCGACTGCCACCCCAACTCTGGCCCCACCACAGCCG
CCCCCTTCTGAAACCATAGAGCGGCGGTGGGCACTGGGGCCATGGTGGCTCGCTCCAGCGACCTGCCCTATCTG
ATTGTCGGGGTCGTCTTGGGCTCCATCGTTCTCATCATCGTCACTTCATCCCTTCTGCTTGTGGAGGGCCTGG
TCTAAGCAAAAACATAACAACAGACCTGGGTTTTCTCGAAGTGCCCTTCCACCTCCTGCCGTATACTATGGTG
CCATTGGGAGGACTCCCAGGCCACCAGGCCAGTGGACAGCCCTACCTCAGTGGCATCAGTGGACGGGCTGTGCT
AATGGGATCCACATGAATAGGGGCTGCCCCCTCGGCTGCAGTGGGCTACCCGGGCATGAAGCCCCAGCAGCACTGC
CCAGGCGAGCTTCAGCAGCAGAGTGACACCAGCAGCCTGCTGAGGCAGACCCATCTTGGCAATGGATATGACCCC
CAAAGTCACCAGATCACGAGGGGTCCCAAGTCTAGCCCGGACGAGGGCTCTTCTTATACACACTGCCCCAGCAG
TCCACTCACCAGCTGCTGCAGCCCCATCACGACTGCTGCCAACGCCAGGAGCAGCCTGCTGCTGTGGGCCAGTCA
GGGGTGAGGAGAGCCCCGACAGTCTGTCTGGAAGCAGTGTGGGACCCCTCCATTTCACTCAGGGCCCCATGC
TGCTTGGGCTTGTGCCAGTTGAAGAGGTGGACAGTCTGACTCCTGCCAAGTGAAGTGGAGGAGACTGGTGCCCC
CAGCACCCCGTAGGGGCTACGTAGGACAGGAACCTGGAATGCAGCTCTCCCCGGGGCACTGGTGGTGTGTGCT
TTTGAAACACCACCTCTCACAATTT**TAGG**CAGAAGCTGATATCCAGAAAGACTATATATTGTTTTTTTTTAAAA
AAAAAGTCG

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FIGURE 1536

MLRGTMTAWRGMREVTLACLLLATAGCFADLNEVPQVTVQPASTVQKPGGTIVILGCVVEPPRMNVTWRLNGKEL
NGSDDALGVLITHGTLVITALNNHTVGRYQCVARMPAGAVASVPATVTLANLQDFKLDVQHVIEWDEGNTAVIAC
HLPESHPKAQVRYSVKQEWLEASRGNYLIMP SGNLQIVNASQEDEGMYKCAAYNPVTQEVKTS GSSDRLRVRST
AEAARI IYPPEAQTIIVTKGQSLILECVASGIPPRVTWAKDGSSVTGYNKTRFLLSNLLIDTTSEEDSGTYRCM
ADNGVGQPGA AVILYNVQVFEPPEVTMELSQLVIPWGQSAKLTCEVRGNPPPSVLWLRNAVPLISSQRLRLSRRA
LRVLSMGPEDEGVYQCMAENEVGSAAHAVVQLRTSRPSITPRLWQDAELATGTPPVSPSKLGNPEQMLRGQPALPR
PPTSVGPASPQCPGEKGQGAPEAPIILSSPRTSKTDSYELVWRPRHEGSGRAPILYYVVKHKRVTNSSDDWTIS
GIPANQHRLTLTRLDPGSLYEVEMAAYNCAGEGQTAMVTFTGRRPKPEIMASKEQQIQRDDPGAS PQSSSQPDH
GRLSPPEAPDRPTISTASETSVYVTWIPRGNGGFPIQSFRVEYKKLKKVGDWILATSAIPPSRLSVEITGLEKGT
SYKFRVRALNMLGESEPSAPSRPYVVS GYSGRVYERP VAGPYITFTDAVNETTIMLKWMIYPASNNNTPIHGFYI
YYRPTDSDNDSYKKDMVEGDKYWHSISHLQPETS YDIKMQCFNEGGESEFSNVMICETKARKSSGQPGRLPPPT
LAPPQPPLPETIERPVGTGAMVARSSDLPYLIVGVVLGSIVLIIVTFIPFCLWRAW SKQKHTTDLGFPR SALPPS
CPYTMVPLGGLP GHQASGQPYLSGISGRACANGIHMNRGCP SAAVGYPGMKPQQHCPGELQQQSDTSSLLRQTHL
GNGYDPQSHQITRGPKSSPDEGSFLYTL PDDSTHQLLQPHHDCCQRQE QPAAVGQSGVRRAPDSPVLEAVWDPPF
HSGPPCCLGLVPVEEVDSPDSCQVSGGDWCPQHVPV GAYVQEPGMQLSPGPLVRVVSFETPPLTI

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FIGURE 1537

GCCCGCAGCTGCAGAGAGTCCCGCTGCGTCTCCGCCGCGTGCGCCCTCCTCGACCAGCAGACCCGCGCTGCGCTC
CGCCGCTGACATGTGTGCCGCTCAGATGCCGCCCCCTGGCGCACATCTCCGAGGGACGTTTCGTCCACTCCACCTG
GACCTGCCCCATGGAGGTGCTGCGGGATCACCTCCTCGGCGTGAGCGACAGCGGCAAAATAGTGTGTTTTAGAAAG
AGCATCTCAACAGGAAAACTGGCCAAAGAATGGTGCTTCAAGCCGTGTGAAATAAGAGAACTGAGCCACCATGA
GTTCTTCATGCCTGGGCTGGTTGATACACACATCCATGCCTCTCAGTATTCCCTTGCTGGAAGTAGCATAGACCT
GCCACTCTTGAGTGGCTGACCAAGTACACATTTCTGCAGAACACAGATTCCAGAACATCGACTTTGCAGAAGA
AGTATATACCAGAGTTGTGAGGAGAACATAAAGAATGGAACAACACAGCTTGTTACTTTGCAACAATTACAC
TGACTCATCTCTGCTCCTTGCCGACATTACAGATAAATTTGGACAGCGGGCATTGTGGGCAAAGTTTGCATGGA
TTTGAATGACACTTTTCCAGAATACAAGGAGACCACTGAGGAATCGATCAAGGAACTGAGAGATTTGTGTCAGA
AATGCTCCAAAAGAACTATTCTAGAGTGAAAGCCCATAGTGACACCACGTTTTTCCCTCTCCTGCTCTGAGACTTT
GATGGGTGAACTGGGCAACATTGCTAAAACCCGTGATTGTCACATTGAGAGCCATATAAGTGAAAATCGTGATGA
AGTTGAAGCTGTGAAAAACTTATACCCCAGTTATAAAAACTACACATCTGTGTATGATAAAAAACAATCTTTTGAC
AAATAAGACAGTGATGGCACACGGCTGCTACCTCTCTGCAGAAGAACTGAACGTATTCCATGAACGAGGAGCATC
CATCGCACACTGTCCCAATTCTAATTTATCGCTCAGCAGTGGATTTCTAAATGTGCTAGAAGTCTGAAACATGA
AGTCAAGATAGGGCTGGGTACAGACGTGGCTGGTGGCTATTCTATTTCCATGCTTGATGCAATCAGAAGAGCAGT
GATGGTTTTCCAATATCCTTTTAATTAATAAGGTAAATGAGAAAAGCCTCACCTCAAAGAGTCTTCAGACTAGC
TACTCTTGAGGAAGCCAAGCCCTGGGGCTGGATGGTGAGATTGGAACCTTTGAAGTGGGCAAGGAATTTGATGC
CATCCTGATCAACCCCAAAGCATCCGACTCTCCATTGACCTGTTTTATGGGGACTTTTTTGGTGATATTTCTGA
GGCTGTTATCCAGAAGTTCTCTATCTAGGAGATGATCGAAATATTGAAGAGGTTTATGTGGGCGGAAAGCAGGT
GGTTCCGTTTTCCAGCTCAGTGTAAGACCCTCGGGCGTCTACAAAGTTCTCCTGGGATTAGCGTGGTTGTGCATC
TCCCTTGTCGCCAGGAAAGAAACAATTCACCTACCAGCCTCCTCACCCATCCTCCACCATTTCCTTAATGTTCC
ATGGTATTTTCAACGGAATACACTTTGAAAGACCTGAGTGTGAAAGACTGAGAGTTGAGGAGTTACTTTGTGGAT
CTTGTCCAAATTTAGTGAAATGTGGAAGTCAACCAGACCAATGATGGAATTAAATGTAAATTTCAAGAGGGCTTT
CACAGTCCACAGGGTTCAAATGACTTGGGTAACAGAAGTTATTCTTAGCTTACCTGTTATGTGACAGTGATTTAC
CTGTCCATTTCCAACCCAAAAGCCTGTCAGAAAGCATTCTTTAGAGAAAACCACTTAACATTTGTTGTTAAACTC
CTGATCGCTACTCTTAAGAATATACATGTATGTATTATAGGAAATTTTTTCTCAATATTTGTATGATTCGCTT
ACTGTTATTGTGCTGAGTGAGCTCCTGTGTGCTTCAGACAAAATAAATGAGACTTTGTGTTTACGTTAAAAAAA
AAAAAAAAAAAAAAAA

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FIGURE 1538

MCAAQMPPLAHIFRGTFVHSTWTCPMEVLRDHLGVS DSGKIVFLEEASQQEKLAKIEWCFKPCEIRELSHHEFFM
PGLVDTHIHASQYSFAGSSIDLPLEWLTKYTFPAEHRFQNI DFAEEVYTRVVRRTLKNGTTTACYFATIHTDSS
LLLADITDKFGQRA FVGKVCMDLNDTFPEYKETTESIKETERFVSEMLQKNYSRVKPIVTPRFSLS CSETLMGE
LGNI AKTRDLHIQSHISENRDEVEAVKNLYPSYKNYTSVYDKNNLLTNKTVMAHG CYLSAEELNVFHERGASIAH
CPNSNLSLSSGFLNVLEVLKHEVKIGLGT DVAGGYSYSMLDAIRRAVMVSNILLINKVNEKSLTLKEVFRLATLG
GSQALGLDGEIGNFEVGKEFDAILINPKASDSPIDLFYGDFFGDISEAVIQKFLYLGDDRNI EEVYVGKQVVPF
SSSV

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FIGURE 1539A

ATCCTTGCCGCCCCGCCCCGCCCCAGCCGCGTCCCGGAGCCGTCGGGCATGGAGCCGTTGGAAGCAGTGCGCGCAGT
GGCTCATCCATTGCAAGGTGCTGCCCACCAACCACCGGGTGACCTGGGACTCGGCTCAGGTGTTTCGACCTTGCGC
AGACCCTCCGCGATGGAGTCCTGCTCTGCCAGCTGCTTAACAACCTCCGGGCGCACTCCATCAACCTGAAGGAGA
TCAACCTGAGGCCGAGATGTCCCAGTTTCTCTGTTTGAAGAACATAAGGACATTTCTCACGGCCTGTTGTGAGA
CGTTTGGAATGAGGAAAAGTGAACCTTTTCGAGGCATTTGACTTGTTTGATGTTCTGTGACTTTGGAAAGGTTATAG
AAACATTATCACGACTTTCTCGAACACCTATAGCATTGGCCACAGGAATCAGGCCCTTCCCAACAGAAGAAAGCA
TTAATGATGAAGACATCTACAAAGGCCTTCCTGATTTAATAGATGAAACCCTTGTTGGAAGATGAAGAAGATCTCT
ATGACTGTGTTTATGGGGAAGATGAAGGTGGAGAAGTCTATGAGGACTTAATGAAGGCAGAGGAAGCACATCAGC
CCAAATGTCCAGAAAATGATATACGAAGTTGTTGTCTAGCAGAAATTAAGCAGACAGAAGAAAAATATACAGAAA
CTTTGGAGTCAATAGAAAAGTATTTTCATGGCACCCTAAAAGATTTCTGACAGCAGCAGAATTTGATTTCAGTAT
TCATCAACATTCTGAACTTGTAACCTTCATCGGAACCTAATGCAAGAGATTTCATGATTCCATTGTAAATAAAAA
ATGACCAGAACTTGTAACAGTTTTTATTAACCTACAAGGAAAGATTGGTTATTTACGGGCAGTACTGCAGTGGAG
TGGAGTCAGCCATCTCTAGTTTACTACATTTCTAAGTCAAAGAAGATGTCAAACCTGAAATTAGAGGAATGTT
CCAAAAGAGCAAATAATGGGAAATTTACTCTTCGAGACTTGCTTGTTGTTTCTATGCAACGTGTTTTAAAGTACC
ACCTTCTCCTCCAGGAACTGGTCAAACATACCCTGATCCGACTGAGAAGGCAAATCTGAACTGGCTCTTGATG
CCATGAAGGACTTGGCACAATATGTGAATGAAGTGAAGAGATAATGAGACCCTTCGTGAAATTAAACAGTTTC
AGCTATCTATAGAGAATTTGAACCAACCAGTTTTGCTTTTTGGACGACCTCAGGGAGATGGTGAATTCGAATAA
CCACTCTAGACAAGCATACCAAAACAAGAAAGGCATATCTTCTTATTTGATTGTCAGTGATCGTATGTAAGAGAA
AAGGTGATAACTATGAAATGAAGGAAATAATAGATCTTCAGCAGTACAAGATAGCCAATAATCCTACAACCGATA
AAGAAAACAAAAAGTGGTCTTATGGCTTCTACCTCATCCATACCCAAGGACAAAATGGGTAGAAATTTTATTGCA
AAACAAAAGATTTAAAGAAGAAATGGCTAGAACAGTTTGAATGGCTTTGTCTAACATAAGACCAGACTATGCAG
ACTCCAATTTCCACGACTTCAAGATGCATACCTTCACTCGAGTCACATCCTGCAAAGTCTGCCAGATGCTCCTGA
GGGGAACATTTTATCAAGGCTATTTATGTTTTAAGTGTGGAGCGAGAGCACACAAAGAATGTTTGGGAAGAGTAG
ACAATTGTGGCAGAGTTAATTCTGGTGAACAAGGGACACTCAAACCTACCAGAGAAACGGACCAATGGACTGCGAA
GAACTCCTAAACAGGTGGATCCAGGTTTACCAAAGATGCAGGTCATTAGGAATATTCTGGAACACCACCCCCAG
CTCTGCATGAAGGACCCCTTTACAGCTCCAGGCCGGGGATACCGTTGAACCTTCTGAAAGGAGATGCACACAGTC
TGTTTTGGCAGGGCAGAAATTTAGCATCTGGAGAGGTTGGATTTTTTCCAAGTGATGCAGTCAAGCCTTGCCAT
GTGTGCCCAAACAGTAGATTATTCTTGCCAACCCTGGTATGCTGGAGCAATGGAAAGATTGCAAGCAGAGACCG
AACTTATTAATAGGGTAAATAGTACTTACCTTGTGAGGCACAGGACCAAAGAGTCAGGAGAATATGCAATTAGCA
TTAAGTACAATAATGAAGCAAAGCACATCAAGATTTTAAACAAGAGATGGCTTTTTTTCACATTGCAGAAAATAGAA
AATTTAAAAGTTTAAATGGAACCTTGTGGAGTACTACAAGCATCATTCTCTCAAGGAAGGGTTCAGAACCTTAGATA
CAACTCTGCAGTTTCCATACAAGGAGCCAGAACATTGAGCTGGACAGAGGGGTAATAGAGCAGGCAACAGCTTGT
TAAGTCCAAAAGTGCTGGGCATTGCCATCGCTCGGTATGACTTCTGTGCAAGAGATATGAGAGAGTTGTCTTGT
TGAAAGGAGATGTGGTGAAGATTTACACAAAGATGAGTGCAATGGCTGGTGGAGAGGAGAAGTAAATGGCAGGG
TGGGCTGGTTTCCATCCACATATGTGGAAGAGGATGAATAAATTCAAATCCCGTGTGACCCCTGCACCAAAAT
TTCAGAGAAGGGATAAATAGAAGCCTGCACAGCATCGTGAATTAACCTGAAGTGTTTAAAAAGCTGCATTTCTGGC
TGTTCAACATCCTCCCTCCTTAGCCCTCCTAAGTCTTAATGCTGAGATTTCTAAAGATGCTGGTACTGACAGAT
TAATGGCTTGCTTAGAGCTGTGCAAGAAACAGCCTGCCAGTCTGTCTATTGTGAGGACCAGGGCAAACCAAGAG
CTGTTCTTCCAGAAAGAGCCCTGCAAACACATTGGTTTCGTGCTTCCCTTTACTTCTTCTGGTCAGATACCATGAA
TGCCAGTCATCAGTAAATCTTAATACACTTTTGCTTTATTTCTCACATGCCATTACACAGATTATTTGATGGTACA
AAGAAGCAGAAAGTGTAATTTTCCCTTTTCCAGCATGACGAAAAATTGGAGTTCTGCCATTTGAGCAGCTTACTGG
AAAGATCCAGCCTTACTTGTCTTAAATTGTCCAACAAGGTGACTCATTGCCCCGCAAACACTTTTACCCCTCAGAT
GTTACTCATGATATTATAAAATATGAGGCCAGTGCTCAGGTTTGCATCATAAGTGAGCTATCCCTGAAGGGTTTT
AATTACTTATTTGGTGTCTGATTATATTTGCAACCTTCTTTATAAAAGGTGAAAAAAGCACACAAAAGAGAGGG
TGTCTTCATATTAAACCTTCACAACCTTCATGATTTTCATAGGATTATTTTGAAATATAGCACTTGACTTTATGA
AAGGATCTGGGCTAGGTATATTAGGGGTAGTTGCCAATAACCTGAAGAAGCTGGCATTGTTTACAGAAACAGATC
AAGGGCTATAATTTATGTCAATTTTATAGCAGCAGTATCTATTAATACATGCCTTTTCCCTCCCATCCACCTCCCC
GCACACACACAAAGATGACCTGGGACATGATTTTTTTTATTCCACATTTTCTTGGAGCACAAACAACCTTTGTTGA

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FIGURE 1539B

GGATTTTGAAGGAAAGCACAACTGGGTCCTTTATTCATTTCTGGGACAGAAAGAGGGTCAGTGGACTTTTGTGG
GCCTCCAGCTTCTCTCAGAGTCTCCCCCTCTGCAGCCCATCCTGGGAGTGTATTAAGTGGAGGGAAGATGGGTCT
TGCAGTACATTTGTTTTGCCAGCCATCACTCTTTTTTGTGAGGAGCCTAAATACATTCTTCCTGGGGTCCAGAG
TCCCCATTCAAGGCAGTCAAGTTAAGACACTAACTTGGCCCTTTCCTGATGGAAATATTTTCTCCATAGCAGAAG
TTGTGTTCTGACAAGACTGAGAGAGTTACATGTTGGGAAAAAAGAAGCATTAACTTAGTAGAACTGAACCAGG
AGCATTAAAGTTCTGAAATTTTGAATCATCTCTGAAATGAAGCAGGTGTAGCCTGCCCTCTCATCAATCCGTCTGG
GTGCCAGAACTCAAGGTTTCACTGGACACATCCCCCTGTTAGAGACCCTCATGGGCTAGGACTTTTCATCTAGGAT
AGATTCAAGACCTTTACCTCAGAATTATGTAAACTGTGATTGTGTTTTAGAAAAATTATTATTGCTAAAAACCAT
TTAAGTCTTTGTATATGTGTAAATGATCAGAAAAATGTATTTTATAAAATGTTCTGTACAATAAAGTTACACCTC
AAAGTGTACTCTTGGAATGGATTCTTTCCTGTAAAGTCTTATCTGCGACTCTGTCTCGGGAATGTTTTGTCTGTT
GCCGTCAGCCGAACCTTTGTTATGGAGGGAGCAGCCTCACACAAGCAGAAACACTCCTGTGGATGGTATTGTAGCA
TGATTGTTTTATTTTAGTCAATAGACCTCTCCTTATAAATGGTGTTTAGTCTTCCTGTTGCATTTTCATGGGCCT
GGGGGTTTCTTAGCAGAGGATATTGGAGCCCCTTTTTGTGACATTACCAATTACATCTTTGTCCACGTTTAATAC
TTTGTGTTTTGAAAAATTTAAATGCTGCAGATTTGTGTAGAGTTCTAATACCAAAGACAGAAGTAAATGTTTTCCAT
ATACTTTGTCTTGCCTGTATGCAGCCCTTGTGTAATATGGTGAATTAGAGTGGTATTTCACTTTGTATTATTTTG
TAAATATGTCAATATAATAAATAGTGACTAAAAAAAAAAAAA

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FIGURE 1540

MEPWKQCAQWLIHCKVLEPTNHRVTWDSAQVFDLAQTLRDGVLLCQLLNNLRAHSINLKEINLRPQMSQFLCLKNI
RTFLTACCETFGMRKSELF EAFDLFDVRDFGKVIETLSRLSRTPIALATGIRPFPTEESINDEDIYKGLPDLIDE
TLVEDEEDLYDCVYGEDEGGEVYEDLMKAEEAHQPKCPENDIRSCCLAEIKQTEEKYTETLESIEKYFMAPLKRF
LTAAEFDSVFINIPELVKLHRNLMQEIHDSIVNKNDONLYQVFINYKERLVIYGQYCSGVESAISSLDYISKSKE
DVKLKLEEC SKRANNGKFTLRDLLVPMQORVLKYHLLQELVKHTTDPTEKANLKLALDAMKDLAQYVNEVKRDN
ETLREIKQFQLSIENLNQPVLLFGRPQGDGEIRITTLDKHTKQERHIFLFDLAVIVCKRKGDNYEMKEIIDLQQY
KIANNPTTDKENKKWSYGFYLIHTQGQNGLEFYCKTKDLKKKWLEQFEMALSNIRPDYADSNFHDFKMHTFTRVT
SCKVCQMLLRGTFYQGYLCFKCGARAHKECLGRVDNCGRVNSGEQGTLLKLEKRTNGLRRTPKQVDPGLPKMQVI
RNYSGTPPPALHEGPPLQLQAGDTVELLKGDASHLFWQGRNLASGEVGFPPSDAVKPCPCVPKPVDYSCQPWYAG
AMERLQAETELINRVNSTYLVRHRTKESGEYAI SIKYNNEAKHIKILTRDGGFFHIAENRKF KSLMELVEYYKHHS
LKEGFRITLDTTLQFPYKEPEHSAGQRGNRAGNSLLSPKVLGIAIARYDFCARDMRELSLLKGDVVKIYTKMSANG
WWRGEVNGRVGWFPSTYVEEDE

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FIGURE 1541

CTCAGACCATAGCCTAAACCTCATCGTCCCTATCTGGCCACCTGGAGCATCCACCTAGAGGATGCCACTAGAGG
AGCCTGGATGCCTGTAGAGTCTGGGGGGCTAGAGTCTTCCCTTTTCAGGCCCAAGAAAGGGAATCAGGCAGACTG
CTGAACAGTAAGTATGACTTTGTAGGCAGCCTTTAGACATAGCTATTACCAAGCTACCGTAAGCTTTTCACAGT
TTGCTTTTAAACAGGCTCTTGTAGGCTGCACATGCTTCCCTAGAACTTGTCTTCCCTTCTGCGATGTCACACCCC
TAAGCTGGTCCTGAAAAATTGGACATCTCGTCACTCTGTATTCACTGTTCCCTCCCAACAAGAGAGTTGTACCCTG
TTTTTAGCTACCCTGGGGAGAGGCTGGCTCAGGAGTCTAGAACAGGGCTAGATTGGGGGGCAACAAGGGGCTACC
ATTTCCCTCCCTTTAGGCTCATGGAGAGTCTACATCCAGCCTTATCTTCTCCCATGGGAAACCAAGGAGGCTCA
ACATGGTGAGAAGAGAGCATGACATCCAGAGCCAGGCAGCCTACAGCACCTGGGACCACCAGGGAATGGGCACAC
AGCAAGGGTTGGCCTCCCTTCTTGGGCAGTGGAAAAAGTCTAGAACAGGAGTCCATGCTTCTCCCAACCAACATGA
GTACCTGCTGCCCTTGGCCTTGTGCTGAATGCCAAGGACCAAGAAGATGCCTCCCCACCCAGTGTGGGAAATTC
ACAGGAGTGGCCTGCAGTGCCATCCTCATGTACATATTCTGCACTGATTGCTGGCTCATCGCTGTGCTCTACTTC
ACTTGGCTGGTGTGTTGACTGGAACACACCCAAGAAAGGTGGCAGGAGGTACAGTGGGTCCGAAACTGGGCTGTG
TGGCGCTACTTTTCGAGACTACTTTCCCATCCAGCTGGTGAAGACACACAACCTGCTGACCACCAGGAACATATC
TTTGGATACCACCCCATGGTATCATGGGCCTGGGTGCCTTCTGCAACTTCAGCACAGAGGCCACAGAAGTGAGC
AAGAAGTTCACAGGCATACGGCCTTACCTGGCTACACTGGCAGGCAACTTCCGAATGCCTGTGTTGAGGGAGTAC
CTGATGTCTGGAGGTATCTGCCCTGTCAGCCGGGACACCATAGACTATTTGCTTTCAAAGAATGGGAGTGGCAAT
GCTATCATCATCGTGGTTCGGGGGTGCGGCTGAGTCTCTGAGCTCCATGCCTGGCAAGAATGCAGTCACCCTGCGG
AACCGBAAGGGCTTTGTGAACTGGCCCTGCGTTCATGGAGCTGACCTGGTTCCCATCTACTCCTTTGGAGAGAAT
GAAGTGTAAGCAGGTGATCTTCGAGGAGGGCTCCTGGGGCCGATGGGTCCAGAAGAAGTCCAGAAATACATT
GGTTTCGCCCCATGCATCTTCCATGGTCGAGGCCTCTTCTCCTCCGACACCTGGGGGCTGGTGCCCTACTCCAAG
CCCATCACCCTGTTGTGGGAGAGCCCATCACCATCCCCAAGCTGGAGCACCCAACCCAGCAAGACATCGACCTG
TACCACACCATGTACATGGAGGCCCTGGTGAAGCTCTTCGACAAGCACAAAGACCAAGTTCGGCCTCCCGGAGACT
GAGGTCCTGGAGGTGAACTGAGCCAGCCTTCGGGGCCAACCTCCCTGGAGGAACCAGCTGCAAATCACTTTTTTGC
TCTGTAAATTTGGAAGTGTGATGGGTGTCTGTGGGTTATTTAAAGAAATTATAACAATTTTGCTAAACCATTAC
AATGTTAGGTCTTTTTTAAGAAGGAAAAAGTCAGTATTTCAAGTTCCTTCACTTCCAGCTTGCCCTGTTCTAGGT
GGTGGCTAAATCTGGGCCTAATCTGGGTGGCTCAGCTAACCTCTCTTCTTCCCTTCCTGAAGTGACAAAGGAAAC
TCAGTCTTCTTGGGGAAGAAGGATTGCCATTAGTGACTTGGACCAGTTAGATGATTCACTTTTTTGCCCTAGGGA
TGAGAGGCGAAAGCCACTTCTCATACAAGCCCTTTATTGCCACTACCCACGCTCGTCTAGTCTGAAACTGCA
GGACCAGTTTCTCTGCCAAGGGGAGGAGTTGGAGAGCACAGTTGCCCCGTTGTGTGAGGGCAGTAGTAGGCATCT
GGAATGCTCCAGTTTGATCTCCCTTCTGCCACCCCTACCTCACCCCTAGTCACTCATATCGGAGCCTGGACTGGC
CTCCAGGATGAGGATGGGGGTGGCAATGACACCCTGCAGGGGAAAGGACTGCCCCCATGCACCATTGCAGGGAG
GATGCCGCCACCATGAGCTAGGTGGAGTAACTGGTTTTTCTTGGGTGGCTGATGACATGGATGCAGCACAGACTC
AGCCTTGGCCTGGAGCACATGCTTACTGGTGGCCTCAGTTTACCTTCCCCAGATCCTAGATTCTGGATGTGAGGA
AGAGATCCCTCTTCAGAAGGGGCTGGCCTTCTGAGCAGCAGATTAGTTCCAAAGCAGGTGGCCCCCGAACCCTAA
GCCTCACTTTTCTGTGCCTTCTGAGGGGGTTGGGCCGGGGAGGAAACCCAACCCTCTCCTGTGTGTTCTGTTAT
CTCTTGATGAGATCATTGCACCATGTCAGACTTTTGTATATGCCTTGAAAATAAATGAAAGTGAGAATCCAAAAA
AAAAAAAAAAAAA

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FIGURE 1542

MYIFCTDCWLI AVL YFTWL VFDWNTPKKGRRSQVVRNWAVWRYFRDYFP IQLVKTHNLLTTRNYIFGYHPHGIM
GLGAF CNFSTEATEVSKKFGIRPYLATLAGNFRMPVLREYLMSSGGICPVSRDTIDYLLSKNGSGNAIIIVVGGGA
AESLSSMPGKNAVTLRNRKGFVKLALRHGADLVPIYSFGENEVYKQVIFEEGSWGRWVQKKFQKYIGFAPCIFHG
RGLFSSDTWGLVPYSKPITTVVGEPITIPKLEHPTQQDIDLYHTMYMEALVKLFDKHKTKFGLPETEVLEVN

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FIGURE 1543

CTCAGGAACAGCCTTCTCCTGCCTCCTCTGCACCTGGACAACCTCAACTCCTGCCAAGATGTCCTGCCAGCAGAAC
CAGCAGCAGTGCCAACCCCCACCCAAGTGTCCCTCACCCAAGTGTCCCCAAAGAGCCCAGTACAGTGTCTGCCT
CCAGCTTCCTCTGGCTGTGCCCCAAGCTCTGGGGGCTGTGGCCCTAGCTCCGAGGGCGGCTGCTTCCTGAACCAC
CACAGGCGCCACCACCGATGCCGGCGCCAGAGGCCCAACTCCTGTGACAGGGGCAGTGGTCAGCAAGGCGGGGGC
TCTGGCTGCGGCCATGGCTCTGGAGGCTGCTGCTTGACCTGGATCCTGATGCTGAGACAAGCGATTTTGGAGGAAA
CAAGAATCCCAAGGGCCCAGGAAAACCCCATCTTGATGCATGAGTTCCCAGATACCCTCTTCTGGCTTTCACAGG
CTGAGCTAGGGGTTTTCTGTGGAAGGTCTGAGCTCTCCCCAGAAGGCACTTCCTGTCTGATGTCCAGGATGTCA
CATGTTCCCTTACCCCTGTACCTGTGAAGGATTGGCAGTGCTTGTGCCTGACCTCATCAAAAAATAAAGCTCCTT
GTCTCATTAATAAAAAAA

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FIGURE 1544

MSCQQNQQQCQPPPKCPSPKCCKSPVQCLPPASSGCAPSSGGCGPSSEGGCFLNHRRHHRCRRQRPNSCDRGS
GQQGGGSGCGHGSGGCC

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FIGURE 1545

TTCTTTTCCCTGGGTCCTGGGAGCTGAGGCAGGAGGAGAAGTGGGGGGATCGGAGTGGAGAGGGAGGGCGGGAAA
TCCCAGTGTGGGGAGAGGGTCGATCAGACCGGCTTGGCTCCCTGGGCACCTCTGTCAGAGCCCCGCCAGGGCTG
CGTGGCCGCCCATATAAGTGGCTCTGGGCTGAGACGGAGAAGTCAGTGCCCGTGCTCCACACGCTGTCCTCCAT
CACTGCCATCGCGATCCTGCAGCTATGTCCTACCCTGTGACCAGTCAGCCCCAGTGCGCCACCACCAGCTGCTAC
CAGACCCAGCTCAGTGACTGGCACACAGGTCTCACGGACTGCTGCAACGACATGCCTGTCTGTCTGTGCGGCACT
TTTGCTCCTCTGTGCCTTGCCCTGCCGCACTCTCCGACGACTTTGGCGAGTGCTGCTGCGCGCCCTACCTGCCCGGA
GGCCTGCACCTCCATCCGCACCGGCATGCGGGAGCGCTACCACATCCAGGGCTCCGTGCGGCACGACTGGGCGGCC
CTCACCTTTTGTCTGCCCTGCGCCCTCTGCCAGATGGCGCGGGAAGTGAAGATCCGAGAGTAAAGGAAGTTCCTG
TCTTCCCCGTCCTTTTCCACCAGTCTCGCCTCTGGCCTTCTCTGGCCACTCCTGGGAGGGGACTGCCTCACCACCC
CTGTCCCGCTGCCAGAAATACACCCACAATAAAAACCTGAAAACCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1546

MGVEREGGKSQCGERVDQTGLAPWAPLSEPRPGLRGRPYKWLWAETEKSVPVSPHVCLHHCHRDPAAMSYPVTSQ
PQCATTSCYQTQLSDWHTGLTDCCNDMPVCLCGTFAPLCLACRISDDFGECCCAPYLPGGLHSIRTGMRERYHIQ
GSVGHDWAAALTFCLPCALCQMARELKIRE

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FIGURE 1547

CCCACGCGTCCGGAGAGGGCGCACCCGGGCGGCCAGCTGGGCTCGGAGCGGAACGGGGTCAGGATGGACGAGGACG
TGCTAACCCACCTGAAGATCCTCATCATCGGCGAGAGTGGGGTGGGCAAGTCCAGCCTGCTCTTGAGGTTACAG
ATGATACGTTTGTATCCAGAACTTGCAGCAACAATAGGTGTTGACTTTAAGGTGAAAACAATTTTCAGTGGATGGAA
ATAAGGCTAAACTTGCAATATGGGATACTGCTGGTCAAGAGAGGTTTAGAACATTAACTCCCAGCTATTATAGAG
GTGCACAGGGTGTATATTAGTTTATGATGTCACAAGAAGAGATACATTTGTTAACTGGATAATTGGTTAAATG
AATTGGAAACATACTGTACAAGAAATGACATAGTAAACATGCTAGTTGGAAATAAAATCGATAAGGAAAAATCGTG
AAGTCGATAGAAAATGAAGGCTGAAAATTTGCACGAAAGCATTCCATGTTATTTATAGAGGCAAGTGCAAAAACCT
GTGATGGTGTACAATGTGCCTTTGAAGAACCTGTTGAAAAGATCATTCAGACCCCTGGACTGTGGGAAAAGTGAGA
ACCAGAATAAAGGAGTCAAACTGTCAACAGGGAAGAAGGCCAAGGAGGAGGAGCCTGTGGTGGTTATTGCTCTG
TGTTATTAACCTCTGGGAAATTCATCTCTTGCATATTTGATCAGATAGTGACATCTTTCTGTATATAAACTCTTT
AACTGCTATTTTAGGGACCTTGCAGTTTGCACATAATTGTTTTATATCATAGCAGTAAATATTTGCAAGAAATCC
CACTCATCGACCCCGGGTAAAAATGTTATGGTAAGCATGCACAGTTTGCAGTCTACAGTTTTTTTATGTAGCACAA
AATAGGTGTACCTTTATAAGTACATTCAATTTTATGATTTACATTTATCATGTAATTTTTAAAAAATCCATCTA
TCTAGGATATGTTGATACAAAGTCTGCTTTTGCTATTCTTTTTGCTTAAATACTCCTATCATTTTTCTGAATTACT
TGGTATTTAGAACTCCTAGCACCCAGGGGAAGAATAGAGGTATCATCAAACGTGGCAAATTTTCTTTCAGGAATA
ATAAAGAGCATGATTCACAGCTTTTCTGGGATGTTTGAGATTCTTTTTTAGTACTAAGCAAAATTTCTCATCACA
GAATGTAGCCAGGCCAATTTATAACTAAATCTCTATTTGTTTCGGATGATGCTTCTAAAACAGCATTGTATAGGTT
AAAGAAGCTTGTTATTTTAAATTTACTTCAATGATTAGCTCAGTTGCTTAACTGGAGTTTAAATCCTGTGATATG
TACATTGGATTTCATGACTGTGCAGCATTTTTAGTTATGTGGTGTGTTGGCAGAATGACAATAAGGTTTTCCCCCAT
TTTGGTTTCAGGAGGACATGAATAGTGTGTTTATTGTAACCTCCTCATACACTTTTAAACCAACATCTTTTTTCA
TAAATGTTGGTAGTGTGTTGTCCAGGTACCTTAACTGTAGCTTGTGTAATGTTGATGAATATCTGTATCTTACGGC
TTCCATAATGGCTAGTTGATATTCAAAAACCTATTTCTGTGTTTTGAGGGGTGGGGAAAAAAAACACTAAGTGAT
AATTTGAAAAAGGCATATTGCTTCCAGATTCTGATGTGTGAGGGAAAATACTGTCAATGAAAATCTTGACAAT
TTACTTAACAAGTAACCAGTAGTTCATCAAAACCAACTTGTACAGACTAATAAATCTTTTTCACAGTATTCAGTT
TTCTCACCTCTTGCTATTGTATATTGTAGATTTTTTTCATTTCATGTGTTATTTAATTTACACTGATCTCTGCTAT
TTTAACCCCCCAAATAAGTTATTTGTCCTTTAAGGTTGGTTACTATAATACCCCTCAGTAAGATTCCAGTATTAA
TTTCTGGGCAGTTTGTCTCTGTATACAATTGCAAATGATAAGCATTTTTGTGAGTGACCACCTTTGCAATATGT
TTGTTAATTTACTTCATGTTGGGTTCTTTCTGAAATGTACATCTTTACATATAAAAAACCTCACATTCTACTTGAT
TTACACTTCCTAGTCTACATTACATGTGGTTGAAGGTTTTATACATTCTATATGCTTTTACTAAATATACAAGAT
TTACTACTAGAAATTTGGAGAAAGAACTAACACATGTACTTGTGATTTGTTTCATGTTATATTAAACTTGAGA
TTTGTGTATTTATGTAGAGTCTGTATTGACAAGACTGTTGTTTTTTGCTCCTTGAGCTATATAATAATCTGTGTA
TTGGATTGTTGTCTTGATTGGTCTAAATTTGAATATATATGAGTTACTTGAATATAACAAAAATGAATTTTGTT
TGATAGATTTATATTGTAACCTTTTTCTAGTTCTTGAATAAATATAGCCTGCTTTCCCTAGATGCATTTGTGTAG
GAAGTATATACATTTCCCTATTACTCTCATCAGCTGAAGAATATGTACTATTGTGTTACTCAAATTATGTGGCTT
TCATTTTGTTGTTTTGTTGCAAGCTTAGTGTTTTGTAGTGGAGGTTTTGTAATGAAACAGTTGTAATATCTAAG
GTCAGGCACCTAGTAACAGGGTTTTGTTAATTTCTTTTCAGAATCATTGAAGCAGTCTTAAAGGGTCTTTTGCAGA
TGGTACAAATTAGAACAATTAGAATATAGTATTTTGAGTTCTAGTAGTACTGAGATTGACCCAAACAAATAAAAA
ACTATTCAATTTCTGAGTAATAGTTAAAAA

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FIGURE 1548

MDEDVLTTLKILIIIGESGVGKSSLLLRFTDDTFDELAATIGVDFKVKTIISVDGNKAKLAIWDTAGQERFRTLTP
SYRGAQGVILVYDVTRDTFVKLDNWLNELETYCTRNDIVNMLVGKNKIDKENREVDRNEGLKFARKHSMLFIEA
SAKTCDGVQCAFEELVEKIIQTPGLWESENQNGVKLSHREEGQGGGACGGYCSVL

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FIGURE 1549A

CCACGCGTCCGCCGGATCAGAGAGTGCTCCGAGCTGGGTTGCCCCACTGTGCTTGTATCTGCACTCTCCAACACT
AGGCATCATTGACATGTTAAAGCTTAGCCAAATAGAATTGTTCTTTGTCACTCTTTTTTAACTTTTACTTATTC
ATTAGGATGATTTTATAATATATTTCTGTTTATAGAGAAACAGGAACAATGGCTACCGAGAGTACTCCCTCAGA
GATCATAGAAAAGAGAAAAGAAAAAGTTGCTTGAAATCCTTCAACATGATCCTGATTCTATCTTAGACACGTTAAC
TTCTCGGAGGCTGATTTCTGAGGAAGAGTATGAGACTCTGGAGAATGTTACAGATCTCCTGAAGAAAAAGTCGGAA
GCTGTTAATTTTGGTACAGAAAAAGGGAGAGGCGACCTGTCAGCATTTTCTCAAGTGTATTATTAGTACTTTTCC
ACAGTCAGCTGCCATTTGCGGCTTAAGGCATGAAGTTTTTAAACATGAGAATACAGTACCTCCTCAATCTATGGG
GGCAAGCAGTAATTCAGAAGATGCTTTTTCTCCTGGAATAAAACAGCCTGAAGCCCCCTGAGATCACAGTGTTCTT
CAGTGAGAAGGAACACTTGGATTTGGAACCTCTGAGTTTTTTCAGGGACAAGAAAACTAGTTATAGGGAAACAGC
TTTGCTGCCAGGAAGAATGAGAAGGAATATGACACACCAGAAGTCACATTATCATATTCAGTTGAGAAAGTTGG
ATGTGAAGTTCCAGCACTATTACATATATAAAAGATGGACAGAGATATGAGGAGCTAGATGATTCTTTATACCTT
AGGAAAAGAGGAATATCTAGGATCTGTTGACACCCCTGAAGATGCAGAAGCCACTGTGGAAGAGGAGGTTTATGA
TGACCCAGAGCACGTTGGATATGATGGTGAAGAGGACTTCGAGAATTCAGAAACCACAGAGTTCTCTGGTGAAGA
ACCAAGTTATGAGGGATCAGAAACCAGCCTTTTCATTGGAGGAGGAACAGGAGAAAAGTATAGAAGAAAGAAAAAA
GGTGTTTAAAGATGCTCTGTTATGTTTGAACATGGATAGAAGCAGAAAGGTTCTGCCAGATTTTGTTAAACAATT
CTCCTTAGATCGAGGATGTAAGTGGACCCCTGAGAGTCCAGGAGACTTAGCCTGGAATTTCTCTGATGAAAGTTCA
AGCACGAGATGTGACGGCTAGGGATTCAATCCTCAGTCACAAGGTTCTGGATGAAGATAGCAAGGAGGATTGCT
GGCTGGAGTGGAGAATTTGGAATTCGAGACATACAAACCATTAAATCCCCTTGACGTGCTTTGTGCCACCATGCT
GTGTTTCAGATAGCTCTTTGCAACGCCAAGTCATGTCAAACATGTATCAGTGCCAGTTTGCTCTTCCCCTGCTACT
GCCAGATGCAGAAAACAACAAAGCATCTTAATGCTGGGGGCCATGAAAGACATTGTGAAGAAGCAGTCAACACA
GTTTTTCAGGGGGGCTACAGAGGATACAGAAAAGTTTCTGACTCTCATGAAGATGCCGTGCATCTCTTTTGTGCG
TCTAGGATACTGTAGCTTCTCTAAGTCCAGAATCCTCAACACACTTCTCAGCCCTGCCAGTTGAAATTACACAA
AATCTTTCTTCATCAAGATTTGCCTCTTTTGGTGCTTCCCCGGCAAACTCTCTGATGGCCTGGTTGAGATAACATG
GTGTTTTCTCTGATAGCGATGATAGAAAGGAAAACCCCTTTTTCCAAAAGCCTGTTGCTCTGGCTAATCTCCGTGG
AAATCTAGAAAGTTTTTGGACTCAGTTTGTTTTTTGATGGAAGTTTCTTCAGCTGTGTTTTTTTTTCACTGACTG
TTTAGGTGAGAAGGAATGGGACTTGCTAATGTTTTTATAGGAGAGGCTGCCATTGAAAGATGCTACTTTGTTCTCAG
TTCCCAAGCCAGGGAGAGTGAAGAGGCTCAAATTTTTTCAGAGGATACTGAACTTGAAGCCAGCACAGCTACTGTT
TTGGGAGAGGGGAGATGCTGGGGATAGAAGGAAGAACATGGAGGGCCTTCAAGCTGCCCTCCAGGAAGTGATGTT
CTCTTCTTGCCCTCAGATGTGTGTCTGTGGAGGATATGGCCGCCCTGGCCAGGGAGCTGGGGATTAGGTAGATGA
AGACTTTGAAAACACTCAGAGAATTCAGTTTTCTCTGGAGAAAACATGGCTGGGACAGCTGAAGGTGAGGGTCA
GCAAAGACACAGTCAGCTAAAAAGCTCATCTAAAAGCCAGGCTCTAATGCCAATTCAAGAGCCTGGGACTCAATG
TGAGCTCAGCCAGAATCTTCAGAATCTCTATGGTACCCCAAGTATTCAGGCCTGTTCTAGAGAACTCCTGGCTCTT
TCCAACCAGAATTGGAGGTAACTTTAAACATGTTTCTTGAAGCCTCCTGGGTTATGGGCCGCCCTTTGGGTC
AGAGCAGAGGCCTAAGTGGTTCCATCCTTTGCCTTTTTCAGAATGCAGGGGCCAGGGCCGAGGTAAAAGTTTTGG
TATTCAATCCTTCCATCCCCAGATATTTTATTTCAGGTGAAAAGATTTCATGAAATTTTCCAGAGTTGCTCGGGGATG
TCACTCGAATGGAACATTTGGGAGACTGCCAAGACCCATTTGTCAGCATGTACAGGCCCTGCCCTGAGAGACCACA
AATGATGGGAACCTCTTGAAGGTCTAGGGCAGTAGCCTCCAAGATAGGTCACTCCTATTCCCTGGATTCACAGCC
AGCAAGAGCAGTAGGGAAGCCATGGCCTCAGCAAGCTTGCAACAGGTAACAGAGTTAACTGAAGCAACTGGAAA
ACTGATAAGAACATCCCATATTGGAAGCCTCACCTCAGTCCTTTCAACCAGCAGCAGCCACACAAAACTAAG
ACCTGCTTCTCAGCAAGGAGTCCAGATGAAGACACAAGGTGGGGCTTCAAATCCAGCTCTCCAAATAGGGTCCCA
TCCCATGTGCAAGAGCTCTCAGTTCAAATCCGATCAGTCCAACCCATCCACAGTCAAACACTCCAGCCTAAACC
CTTCCATTCTGTGCCCTCTCAACCTAAATCCTCTCAGACAAAATCCTGTGCTCAGTCCAGCCCTCCCAAATAAACC
TTCTCCATGCAAATCTACTCAGCCTAAGCCAAGCCAGCCCTGGCCTCCCAAGTCTAAGCCTTCTCAGCCCAGACC
CCCTCAACCTAAGTCATCCTCAACCAATCCTTACAAGCTAAGGCACACCACTCAAAGCAGGGCAGAAGAGGGG
AGGGAAGCATTAAGAGCTAACTCCAGAGATCTATAAAGCATATCCTTTACCCAGGCCATTCTATCATATAGTA
AGCAGAAGAGTTGCCATGAAAGTAAAGACTACTGTCAATTAGCATGTAAACAAAAGAAAGATATACATGACCGAA
TTGGATATCTTTGTTTGTGTTTGGAGACAGAGTTTCACTCTTGTGCCCAGGCTGGAGTGCAATGGCACGATCT
CGGCTCACCGCAACCTCTGCTTCTGGCTTAAAGTGATTCTCTGCTCAGCCTCTCGAGTAGCTGGGATTACAG

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FIGURE 1549B

GCATGCACCACCACACCCAGCTAATTTTGTATTTTGTAGTAGAGGCAGGGTTTCTCCATGTTGGTCAGGCTGGTCT
TGAACTCCCGACCTCAGGTGATCCGCCCACCTAGGCCTCTCAAAGTGTTGGGATTACGTGTGTAAGCCACAGTGC
CCAGCCCGAATTGGATATCTTTAAGATATCTGTAAGTGTTATATCCCTAACCAAGAAGAAAAATATGAAAATAAT
TAAGACTAGAATCAAGCAGTAGATAATTGAATCCAATCTTGGGTATTATTAGATAATGTATAACTTGCACCCAGG
GAATGGGGGTCTATGAGACAACCCCACTTGGAGAAGAATGGGGTTAGGGTCTCTAATTGCAAAGTGACTGTACAA
TAGGACGAAAGTTGCCTCTGTGTCTGAGAAAGTATCTTAGTTGTTGGCTGCTCCAGAGGTATCTTTGTCAAAGC
TTCTGGTTCAATATCAGCCACTGAGCAGATAACCCTGCTTATTTGGTGTGGTTAAATCAACTAGCTTCTGCTAAT
AGCCCAATTTGCTTGAATGGGAAAACCTCTCTCATTTGACCCTTATAGGTAGAAATAATGAATTAACAACCAATA
AAATTAATCATTTGCGATTAAAAA

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FIGURE 1550

MATESTPSEIIERERKKLLEILQHDPDSILDTLTSRRLISEEEYETLENVTDLLKKSRKLLILVQKKGEATCQHF
LKCLFSTFPQSAAICGLRHEVLKHENTVPPQSMGASSNSEDASFPGIKQPEAPEITVFFSEKEHLDLETSEFFRD
KKTSYRETALSARKNEKEYDTPEVTLSYSVEKVGCEVPATITYIKDGQRYEELDDSLYLKGEEYLGSDTPEDAE
ATVEEEVYDDPEHVGVDGEEDFENSETTEFSGEEPSYEGSETSLSLEEEQEKSIERKKVFKDVLLCLNMDRSRK
VLPDFVKQFSLDRGCKWTPESPGLAWNFLMKVQARDVTARDSILSHKVLEDESKEDLLAGVENLEIRDIQTINP
LDVLCATMLCSDSSLQRQVMSNMYQCQFALPLLLPDAENNKSI MLGAMKDIVKKQSTQFSGGPTEDTEKFLTIM
KMPVISFVRLGYCSFSKSRILNTLLSPAQLKLHKIFLHQDLPLLVLPQISDGLVEITWCFPDSDDRKENPFFQK
PVALANLRGNLESFWTQFGFLMEVSSAVFFFTDCLGEKEWDLLMFLGEAAIERCYFVLSSQARESEEAQIFQRIL
NLKPAQLLFWERGDAGDRRKNMEGLQAALQEVMFSSCLRCVSVEDMAALARELGIQVDEDFENTQRIQVSSGENM
AGTAEGEGQQRHSQKSSSKSQALMPIQEPGTQCELSQNLQNLGYTPVFRPVLENSWLFPTRIGGNFNHVS LKAS
WVMGRPFGSEQRPKWFHPLPFQNAGAQQGRGKSFGIQSFHPQIFYSGERFMKFSRVARGCHSNGTFGR LPRPICQH
VQACPERPQMMGT LERSRAVASKIGHSYSLDSQPARAVGKPWPQQACTRVTELTEATGKLIRTSHIGKPH PQSFQ
PAAATQKL RPASQQGVQMK TQGGASN PALQIGSHPMCKSSQFKSDQSNPSTVKHSQPKPFH SVPSQPKSSQTKSC
QSQPSQTKPSPCKSTQPKPSQPWPPQSKPSQPRPPQPKSSSTNPSQAKAHH SKAGQKRGGKH

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FIGURE 1551

CCTCGCCCCGCCTACGCGGGAACCCAACCGCGGGCGACCGGACGTGCACTCCTCCAGTAGCGGCTGCACGTCTGTGC
AATGCCCCGCTATGAGGAGGTGAGCGTGTCCGGCTTCGAGGAGTTCCACCGGGCCGTGGAACAGCACAAATGGCAA
GACCATTTTCGCCTACTTTACGGGTTCTAAGGACGCCGGGGGGAAAAGCTGGTGCCCCGACTGCGTGACAGGCTGA
ACCAGTCGTACGAGAGGGGCTGAAGCACATTAGTGAAGGATGTGTGTTTCATCTACTGCCAAGTAGGAGAAAAGCC
TTATTGGAAAGATCCAAATAATGACTTCAGAAAAAACTTGAAAGTAACAGCAGTGCCCTACACTACTTAAGTATGG
AACACCTCAAAAACCTGGTAGAATCTGAGTGTCTTCAGGCCAACCTGGTGGAATGTTGTTCTCTGAAGATTAAGA
TTTTAGGATGGCAATCATGTCTTGATGTCCTGATTTGTTCTAGTATCAATAAACTGTATACTTGCTTTGAATTCA
TGTTAGCAATAAATGATGTTAAAAAACTGGCATGTGTCTAAACAATAGAGTGCTATTAAAATGCCCATGAACCT
TTAGTTTGCCTGTAATACATGGATATTTTTAAGATATAAAGAAGTCTTCAGAAATAGCAGTAAAGGCTCAAAGGA
ACGTGATTCTTGAAGGTGACGTAATACCTAAAAACTCCTAAAGGTGCAGAGC